Appendix A

Initial Study/NOP and Comments Received

VINEYARD PHASE III RETAIL DEVELOPMENT PROJECT

Initial Study

PREPARED FOR:

RETAIL DEVELOPMENT ADVISORS
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Murrieta, California 92562
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A Initial Study/Notice of Preparation Distribution List

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ACRONYMS AND ABBREVIATIONS

Acronym/Abbreviation	Definition
AQMD	Air Quality Management Plan
CAAQS	California Ambient Air Quality Standards
CEQA	California Environmental Quality Act
CMP	Congestion Management Program
CO	carbon monoxide
CO_2	carbon dioxide
DPM	diesel particulate matter
EIR	environmental impact report
ESA	Environmental Site Assessment
GHG	greenhouse gas
HVAC	heating, ventilation, and air conditioning
I-	Interstate
IS/NOP	initial study/notice of preparation
MRZ	Mineral Resource Zone
MSHCP	Multiple Species Habitat Conservation Plan
NAAQS	National Ambient Air Quality Standards
O_3	Ozone
$PM_{2.5}$	fine particulate matter
PM_{10}	coarse particulate matter
ppm	parts per million
SCAQMD	South Coast Air Quality Management District
SKU	shop keeping unit
SMARA	State Mining and Reclamation Act
SWPPP	stormwater pollution prevention plan

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1 INTRODUCTION

1.1 California Environmental Quality Act Compliance

The California Environmental Quality Act (CEQA) serves as the main framework of environmental law and policy in California. CEQA emphasizes the need for public disclosure and identifying and preventing environmental damage associated with proposed projects. Unless the project or program is deemed categorically or statutorily exempt, CEQA is applicable to any project or program that must be approved by a public agency in order to be processed and established. The proposed project considered herein does not fall under any of the statutory or categorical exemptions listed in the 2018 CEQA Statute and Guidelines (California Public Resources Code, Section 21000 et seq.; 14 CCR 15000 et seq.); therefore, it must meet CEQA requirements.

The intent of this document is to provide an overview and analysis of the environmental impacts associated with the proposed Vineyard Phase III Retail Development Project (proposed project) by the City of Murrieta (City), the lead agency. The document is accessible to the public, in accordance with CEQA, in order to receive feedback on the project's potential impacts, as well as the scope of the project's environmental impact report (EIR) (14 CCR Section 15121(a)).

1.2 Availability of the Notice of Preparation and Initial Study

The initial study/notice of preparation (IS/NOP) for the proposed project is being distributed directly to numerous agencies, organizations, and interested groups and persons during the scoping period (see Appendix A for the IS/NOP distribution list). The IS/NOP is also available for review at the following locations:

City of Murrieta
Planning Division
1 Town Square
Murrieta, California 92562

Murrieta Public Library
8 Town Square
Murrieta, California 92562

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2 PROJECT DESCRIPTION

2.1 Introduction

The proposed project involves the construction of a new retail and auto-services development consisting of a bank with a drive through ATM station, two restaurants, two retail stores, one fast food restaurant with drive-through, one auto-related services/retail store, one automobile tire store, four bio-retention basins, and associated parking and street improvements.

2.2 Project Location

The proposed project is located in the northern portion of the City of Murrieta in Riverside County. Specifically, the project site is located on a vacant lot northeast of the intersection of Interstate (I-) 215 and Clinton Keith Road (Figure 1, Project Location).

2.3 Environmental Setting

City of Murrieta

The City is located in southwestern Riverside County and consists of 26,852 acres, of which 21,511 acres is located within the City limits and 5,341 acres is located within the City's sphere of influence. The City is situated between the Santa Ana Mountains and the San Jacinto Mountains. Surrounding communities include Menifee to the north, Temecula to the south, Wildomar to the west, and unincorporated Riverside County to the north, south, and east. The San Diego County border is just south of Temecula, and the Orange County border lies on the other side of the Santa Ana Mountains to the west. Regional access to the City is provided by I-215 and I-15.

Project Site

The project site is a westward sloping 6.2-acre vacant lot at the northeast corner of I-215 and Clinton Keith Road. The City's General Plan Land Use Map designates the project site as Commercial (C) (City of Murrieta 2011a). The City's Zoning Map shows the site as being zoned Regional Commercial (RC) (City of Murrieta 2014). Elevations on the project site range from approximately 1,530 to 1,560 feet above mean sea level. The surrounding area includes a site to the east that has been subject to an ongoing mass grading operation for several years to provide fill material/rock for construction purposes, and is currently proposed for development of a commercial retail center, including a Costco. The I-215 is to the west and north, as well as vacant land to the north. To the south and across Clinton Keith Road is a residential subdivision and a school, south of which lies open space associated with the Hogback Hills.

Surrounding Uses

The project site is surrounded by vacant land, residential development, a high school and the I-215 freeway. Specific land uses located in the immediate vicinity of the project site include the following:

- **North:** Vacant land and I-215 freeway
- **East**: Vacant land with ongoing mass grading operations/proposed future commercial development.
- **South:** Residential development and Vista Murrieta High School
- **West:** Vacant land and I-215 freeway

2.4 Project Description

The proposed project would involve the construction of a new retail development center, which would consist of the following components, as shown on Figure 2, Proposed Site Plan:

- The construction of an approximately 3,470-square-foot bank with a two-lane drive-through ATM station.
- The construction of an approximately 10,000-square-foot building that would provide space for three tenants. The building would provide approximately 4,500 square-feet of space for a retail tenant, 3,000 square-feet of space for a food tenant, and 2,500 square-feet of space with drive-through for another food tenant.
- The construction of an approximately 2,500-square-foot detached fast food restaurant with drive-through.
- The construction of an approximately 7,150-square-foot retail store.
- The construction of an approximately 5,000-square-foot tire store. The store would have four bays and hydraulic lifts where customers can have new tires installed on their vehicles.
- The construction of an approximately 4,000-square-foot auto-related service/retail store.
- The construction of two 65-foot-tall pylon signs to be visible from I-215, along two 25-foot and one 10-foot monument signs
- The construction of four bio-retention basins that would be located in the northwest and southwest corners of the site, and adjacent to the proposed bank building, so that runoff from the proposed buildings and parking lots can be captured, percolate into the groundwater table, and reduce the rate of stormwater discharged off site to pre-development condition.
- Construction of a private access drive at the Creighton Road intersection with Clinton Keith Road and associated improvements to the intersection.
- Construction of 177 parking stalls.

Site Plan

The development would be designed with a vineyard–California Craftsman theme, similar to the design of the approved Vineyard Phase II retail development located adjacent to the project site.

Auto Related Services/Retail Store

The proposed 4,000-square-foot auto related services/retail store would sell materials related to general vehicle maintenance, such as oil- and synthetic-based lubricants, headlight replacements, and batteries. No maintenance activities would be allowed within parking areas. The store would have sixteen designated parking stalls.

Tire Store

The proposed 5,000-square-foot tire store would have four bays and hydraulic lifts where customers can have new tires installed on their vehicles. Oil-change services and tune ups could also be offered on site, but services that are more intensive would not be permitted (i.e., bodywork, engine removal). Customers would likely spend one to three hours on site. The store would have 20 designated parking stalls.

Retail Pad

The proposed 7,150-square-foot retail store may be an auto parts store, office supply store, pet supply store, health and beauty store, shoe store, or other similar retailers. A total of 29 parking stalls would be provided for the retail store.

Three-Tenant Food and Retail Pad

The 10,000 square foot three or four-tenant food and retail pad would house retail or service tenants and two food tenants. One of the food tenants would have a drive through lane on the west and south of the building. Both tenants would have casual dining spaces. The 4,500-square-foot building would be used for a retail/service tenant with a service-oriented business such as a pick up and drop off dry cleaner (no plant on site), hair salon, and phone store. The four stores would have 73 designated parking spots.

Fast Food Restaurant

This proposed 2,500-square-foot standalone fast-food restaurant with drive-through would service customers needing to be served quickly. It would have 25 designated parking stalls. The design would match elements of the overall architecture of the balance of the shopping center.

Bank

The proposed 3,470-square-foot bank would feature a two-lane drive-through ATM station, along with 30 designated parking stalls.

Circulation Improvements

The project would involve improvements to the intersection of Clinton-Keith Road and Creighton Avenue, such as sidewalk and crosswalk improvements, landscaping, and stoplight installation. The project would also involve the construction of an extension of a private access road to the north, and overlay of the vacated Antelope Road as a private drive to the south.

2.5 Project Operations

All deliveries to the stores would be through the front doors before 10:30 a.m., except for the bank, which would receive deliveries throughout the day. Hours for businesses would vary by store, but it is anticipated that the stores with the longest operating hours would be open from 9 a.m. to 9 p.m. every day of the week.

In total, the development is expected to employ approximately 20 full time employees.

The tire store would follow standard operating practices in storing and recycling discarded tires and oil in designated areas away from public view.

2.6 Phasing

The proposed project will be constructed in one phase, with grading and construction expected to take place between February 2020 and May 2020.

2.7 Project Approvals

The project would require the following approvals from the City:

- A site development permit
- Tentative Parcel Map
- Design review approval of the site plan, landscape, and building architecture to allow for retailing of general merchandise and services
- Approval of the project and certification of the EIR

Other agency approvals may include the following:

- Regional Water Quality Control Board – National Pollutant Discharge Elimination System Construction General Permit
- Riverside County Department of Environmental Health
    - Permit to Operate a Food Facility (Riverside County Code 4.52 and the California Health and Safety Code)

3 INITIAL STUDY CHECKLIST

1. Project title:

Vineyard Phase III Retail Development

2. Lead agency name and address:

City of Murrieta
Planning Division
1 Town Square
Murrieta, California 92562

3. Contact person and phone number:

James Atkins, Associate Planner
951.461.6414

4. Project location:

Northeast corner of I-215 and Clinton Keith Road

5. Project sponsor's name and address:

Retail Development Advisors
Contact: Allan Davis, President
27890 Clinton Keith Road, D490
Murrieta, California 92562

6. General plan designation:

Commercial (C)

7. Zoning:

Regional Commercial (RC)

8. Description of project. (Describe the whole action involved, including but not limited to later phases of the project, and any secondary, support, or off-site features necessary for its implementation. Attach additional sheets if necessary):

See Section 2, Project Description, for further details.

9. Surrounding land uses and setting (Briefly describe the project's surroundings):

The project site is surrounded by vacant land, residential development, and a high school. Specific land uses located in the immediate vicinity of the project site include the following:

- **North:** Vacant and I-215
- **East**: Vacant land with ongoing mass grading operations/proposed future commercial development
- **South:** Residential development and Vista Murrieta High School
- **West:** I-215

10. Other public agencies whose approval is required (e.g., permits, financing approval, or participation agreement):

- Regional Water Quality Control Board
- South Coast Air Quality Management District
- Riverside County Department of Environmental Health
    - Permit to Operate a Food Facility (Riverside County Code 4.52 and the California Health and Safety Code)

11. Have California Native American tribes traditionally and culturally affiliated with the project area requested consultation pursuant to California Public Resources Code Section 21080.3.1? If so, has consultation begun?

Yes. The City of Murrieta typically receives consultation requests from five tribes. These five tribes will be notified about the project and consultation, if requested, will occur concurrent with the CEQA process.

ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED

The environmental factors checked below would be potentially affected by this project, involving at least one impact that is a "Potentially Significant Impact," as indicated by the checklist on the following pages.

☒ Aesthetics	☐ Agriculture and Forestry Resources	☒ Air Quality
☒ Biological Resources	☒ Cultural Resources	☒ Energy
☒ Geology and Soils	☒ Greenhouse Gas Emissions	☒ Hazards and Hazardous Materials
☒ Hydrology and Water Quality	☐ Land Use and Planning	☒ Mineral Resources
☒ Noise	☒ Population and Housing	☒ Public Services
☒ Recreation	☒ Transportation and Traffic	☒ Tribal Cultural Resources
☒ Utilities and Service Systems	☒ Wildfire	☒ Mandatory Findings of Significance

DETERMINATION: (To be completed by the Lead Agency)

On the basis of this initial evaluation:

☐ I find that the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.

☐ I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.

☒ I find that the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.

☐ I find that the proposed project MAY have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environment, but at least one effect (1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and (2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.

☐ I find that although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier ENVIRONMENTAL IMPACT REPORT or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier ENVIRONMENTAL IMPACT REPORT or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.

Signature

3/18/19
Date

EVALUATION OF ENVIRONMENTAL IMPACTS:

1. A brief explanation is required for all answers except "No Impact" answers that are adequately supported by the information sources a lead agency cites in the parentheses following each question. A "No Impact" answer is adequately supported if the referenced information sources show that the impact simply does not apply to projects like the one involved (e.g., the project falls outside a fault rupture zone). A "No Impact" answer should be explained where it is based on project-specific factors as well as general standards (e.g., the project will not expose sensitive receptors to pollutants, based on a project-specific screening analysis).
2. All answers must take account of the whole action involved, including off-site as well as on-site, cumulative as well as project-level, indirect as well as direct, and construction as well as operational impacts.
3. Once the lead agency has determined that a particular physical impact may occur, then the checklist answers must indicate whether the impact is potentially significant, less than significant with mitigation, or less than significant. "Potentially Significant Impact" is appropriate if there is substantial evidence that an effect may be significant. If there are one or more "Potentially Significant Impact" entries when the determination is made, an Environmental Impact Report (EIR) is required.
4. "Negative Declaration: Less Than Significant With Mitigation Incorporated" applies where the incorporation of mitigation measures has reduced an effect from "Potentially Significant Impact" to a "Less Than Significant Impact." The lead agency must describe the mitigation measures, and briefly explain how they reduce the effect to a less than significant level (mitigation measures from "Earlier Analyses," as described in (5) below, may be cross-referenced).
5. Earlier analyses may be used where, pursuant to the tiering, program EIR, or other CEQA process, an effect has been adequately analyzed in an earlier EIR or negative declaration. Section 15063(c)(3)(D). In this case, a brief discussion should identify the following:
    a. **Earlier Analysis Used.** Identify and state where they are available for review.
    b. **Impacts Adequately Addressed.** Identify which effects from the above checklist were within the scope of and adequately analyzed in an earlier document pursuant to applicable legal standards, and state whether such effects were addressed by mitigation measures based on the earlier analysis.
    c. **Mitigation Measures.** For effects that are "Less than Significant with Mitigation Measures Incorporated," describe the mitigation measures which were incorporated or refined from the earlier document and the extent to which they address site-specific conditions for the project.
6. Lead agencies are encouraged to incorporate into the checklist references to information sources for potential impacts (e.g., general plans, zoning ordinances). Reference to a previously prepared or outside document should, where appropriate, include a reference to the page or pages where the statement is substantiated.
7. Supporting Information Sources: A source list should be attached, and other sources used or individuals contacted should be cited in the discussion.

8. This is only a suggested form, and lead agencies are free to use different formats; however, lead agencies should normally address the questions from this checklist that are relevant to a project's environmental effects in whatever format is selected.
9. The explanation of each issue should identify:
    a. The significance criteria or threshold, if any, used to evaluate each question; and
    b. The mitigation measure identified, if any, to reduce the impact to less than significance.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
I. AESTHETICS – Except as provided in Public Resources Code section 21099, would the project**:**				
a) Have a substantial adverse effect on a scenic vista?	☐	☐	☒	☐
b) Substantially damage scenic resources including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?	☐	☐	☐	☒
c) In non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?	☒	☐	☐	☐
d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?	☒	☐	☐	☐
II. AGRICULTURE AND FORESTRY RESOURCES – In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Department of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment project; and forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board. Would the project:				
a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?	☐	☐	☐	☒
b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?	☐	☐	☐	☒

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?	☐	☐	☐	☒
d) Result in the loss of forest land or conversion of forest land to non-forest use?	☐	☐	☐	☒
e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?	☐	☐	☒	☐
III. AIR QUALITY – Where available, the significance criteria established by the applicable air quality management district or air pollution control district may be relied upon to make the following determinations. Would the project::				
a) Conflict with or obstruct implementation of the applicable air quality plan?	☒	☐	☐	☐
b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?	☒	☐	☐	☐
c) Expose sensitive receptors to substantial pollutant concentrations?	☒	☐	☐	☐
d) Result in other emissions (such as those leading to odors adversely affecting a substantial number of people?	☒	☐	☐	☐
IV. BIOLOGICAL RESOURCES – Would the project:				
a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?	☒	☐	☐	☐
b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?	☐	☐	☒	☐
c) Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?	☐	☐	☒	☐

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?	☐	☐	☒	☐
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?	☒	☐	☐	☐
f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?	☒	☐	☐	☐
V. CULTURAL RESOURCES – Would the project:				
a) Cause a substantial adverse change in the significance of a historical resource pursuant to §15064.5?	☐	☐	☐	☒
b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?	☒	☐	☐	☐
c) Disturb any human remains, including those interred outside of dedicated cemeteries?	☒	☐	☐	☐
VI. ENERGY – Would the project:				
a) Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?	☒	☐	☐	☐
b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?	☒	☐	☐	☐
VII. GEOLOGY AND SOILS – Would the project:				
a) Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:				
i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.	☐	☐	☒	☐
ii) Strong seismic ground shaking?	☐	☐	☒	☐

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
iii) Seismic-related ground failure, including liquefaction?	☐	☐	☒	☐
iv) Landslides?	☐	☐	☒	☐
b) Result in substantial soil erosion or the loss of topsoil?	☒	☐	☐	☐
c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?	☐	☐	☐	☒
d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?	☐	☐	☐	☒
e) Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?	☐	☐	☐	☒
f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?	☒	☐	☐	☐
VIII. GREENHOUSE GAS EMISSIONS – Would the project:				
a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	☒	☐	☐	☐
b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?	☒	☐	☐	☐
IX. HAZARDS AND HAZARDOUS MATERIALS – Would the project:				
a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?	☒	☐	☐	☐
b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?	☒	☐	☐	☐
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?	☒	☐	☐	☐

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
d) Be located on a site that is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?	☒	☐	☐	☐
e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?	☐	☐	☐	☒
f) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?	☒	☐	☐	☐
g) Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?	☐	☐	☒	☐
X. HYDROLOGY AND WATER QUALITY – Would the project:				
a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?	☒	☐	☐	☐
b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?	☒	☐	☐	☐
c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:	☒	☐	☐	☐
i) result in substantial erosion or siltation on- or off-site;	☒	☐	☐	☐
ii) substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off site;	☒	☐	☐	☐
iii) create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or	☒	☐	☐	☐
iv) impede or redirect flood flows?	☐	☐	☐	☒

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?	☐	☐	☐	☒
e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?	☒	☐	☐	☐
XI. LAND USE AND PLANNING – Would the project:				
a) Physically divide an established community?	☐	☐	☐	☒
b) Cause a significant environmental impact due to a conflict with any applicable land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?	☐	☐	☐	☒
XII. MINERAL RESOURCES – Would the project:				
a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?	☐	☐	☐	☒
b) Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan?	☐	☐	☐	☒
XIII. NOISE – Would the project result in:				
a) Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?	☒	☐	☐	☐
b) Generation of excessive groundborne vibration or groundborne noise levels?	☒	☐	☐	☐
c) For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?	☐	☐	☐	☒
XIV. POPULATION AND HOUSING – Would the project:				
a) Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?	☒	☐	☐	☐

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?	☐	☐	☐	☒
XV. PUBLIC SERVICES				
a) Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for any of the public services:				
Fire protection?	☒	☐	☐	☐
Police protection?	☒	☐	☐	☐
Schools?	☒	☐	☐	☐
Parks?	☒	☐	☐	☐
Other public facilities?	☒	☐	☐	☐
XVI. RECREATION				
a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?	☒	☐	☐	☐
b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?	☒	☐	☐	☐
XVII. TRANSPORTATION/TRAFFIC – Would the project:				
a) Conflict with program plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?	☒	☐	☐	☐
b) Would the project conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)??	☒	☐	☐	☐
c) Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?	☒	☐	☐	☐
d) Result in inadequate emergency access?	☒	☐	☐	☐
XVIII. TRIBAL CULTURAL RESOURCES				
a) Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:				

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
i) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k), or	☒	☐	☐	☐
ii) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1? In applying the criteria set forth in subdivision (c) of Public Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.	☒	☐	☐	☐
XIX. UTILITIES AND SERVICE SYSTEMS – Would the project:				
a) Require or result in the relocation or construction of new or expaned water, or wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities or expansion of existing facilities, the construction or relocation of which could cause significant environmental effects?	☒	☐	☐	☐
b) Have sufficient water supplies available to serve the project from existing entitlements and resources, and reasonably foreseeable future development during normal, dry and multiple dry years?	☒	☐	☐	☐
c) Result in a determination by the wastewater treatment provider, which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?	☒	☐	☐	☐
d) Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?	☒	☐	☐	☐
e) Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?	☒	☐	☐	☐
XX. WILDFIRE – If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project:				
a) Substantially impair an adopted emergency response plan or emergency evacuation plan?	☒	☐	☐	☐

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
b) Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?	☐	☐	☒	☐
c) Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?	☐	☐	☒	☐
d) Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?	☐	☐	☒	☐
XXI. MANDATORY FINDINGS OF SIGNIFICANCE				
a) Does the project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?	☒	☐	☐	☐
b) Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?	☒	☐	☐	☐
c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?	☒	☐	☐	☐

3.1 Aesthetics

a) Would the project have a substantial adverse effect on a scenic vista?

Less Than Significant Impact. The City of Murrieta General Plan EIR describes a scenic vista as "a view of undisturbed natural lands exhibiting a unique or unusual feature that comprises an important or dominant portion of the viewshed" (City of Murrieta 2011b). Scenic vistas may also be represented by a particular distant view that provides visual relief from less attractive views of nearby features (City of Murrieta 2011b).

The immediate project area is characterized by gently sloping and hilly topography and with hills and larger mountains (Santa Rosa Plateau, Hogbacks, Santa Rosa Mountains, San Bernardino Mountains, and San Jacinto Mountains) in all directions serving as the background views from the site. The area in the immediate vicinity of the project site has experienced and continues to experience significant urban development including nearby Vista Murrieta High School, commercial development, single and multi-family residential development, and I-215 to the west of the project site.

The project site sits approximately 1.1 miles southeast of the steep ridgelines of the adjacent Greer Ranch hills. Due to the considerable distance that separates the project site from the nearest concentration of ridgelines, the proposed project would not be located in the viewshed of these identified scenic resources. In addition, given the substantial amount of manmade development that occurs between the project site and the closest ridgeline, it is unlikely that the proposed project would be visible from these scenic resources. Therefore, the potential for project impacts associated with scenic vistas would be less than significant.

b) Would the project substantially damage scenic resources including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?

No Impact. The California Department of Transportation (Caltrans) designates official and eligible scenic highways within the state. There are no designated or proposed state scenic highways within the vicinity of the project site (Caltrans 2007). The nearest highway to the proposed site is I-215, which is an eligible state scenic highway for a 3-mile portion north of the site, but is not listed as a designated scenic highway. Therefore, implementation of the proposed project would not result in an impact related to scenic resources within a state scenic highway.

c) Would the project, in non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality.

Potentially Significant Impact. The project site is currently vacant, but located in an urbanized area and surrounded by the I-215 freeway to the west, vacant land, residential development, and a high school. The City's General Plan Land Use Map designates the project site as Commercial (C) (City of Murrieta 2011a) and the City's Zoning Map shows the site as being zoned Regional Commercial (RC) (City of Murrieta 2014). The proposed development is consistent with the land use designation and zoning and would comply with all City regulations regarding the project color palette, elevations, and landscaping, which are set forth to preserve the scenic quality of the City.

During construction, debris, grading, and construction equipment may temporarily affect the aesthetic quality of the immediate area. Once construction is complete, the commercial buildings would be visible from the residential development to the south, proposed and approved commercial development to the east, and the I-215 to the west. The visual character of the site would change from disturbed undeveloped land to a developed condition. Ground surfaces would be paved and landscaped. This impact would be potentially significant; therefore, the issue will be analyzed further in the EIR.

d) Would the project create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?

Potentially Significant Impact. Implementation of the proposed project would include the installation of new nighttime lighting, which would potentially adversely affect nighttime views in the area. Such lighting would include the following:

- Lighting throughout the proposed parking lots and sidewalks.
- Illumination of storefronts and illuminated signage.
- Illumination for safety in accordance with AB 944 for a 24 hour accessible retail center.

The proposed project also includes two restaurants with drive-through windows and a bank with an ATM drive through on the project site. The project proposes that these facilities would operate during both daytime and nighttime hours. Under these proposed hours of operation, vehicles lining up to use the proposed drive-through facilities could introduce a new source of light and glare, especially for opposing motorists.

Lighting standards are established in the City's Development Code Sections 16.18.100 and 16.18.110 along with night lighting standards as established by the General Plan which requires that the project

control light and/or glare on adjacent properties and minimize impacts of light and/or glare on the Mt. Palomar Observatory to a less than significant level (City of Murrieta 2004).

Implementation of these design requirements is mandatory; however, the impacts associated with nighttime light and glare could be potentially significant and will be analyzed further in the EIR.

3.2 Agriculture and Forestry Resources

a) Would the project convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?

No Impact. As indicated in the City General Plan Final EIR Important Farmland Map (City of Murrieta 2011b, Exhibit 5.11-1), the project site is designated as Grazing Land. Images of the project site dating back to 1938 show no signs of agricultural use on the project site (Historic Aerials 2018). The site is currently a 6.2-acre vacant lot. The project would result in no impact to Farmland as there is no Prime Farmland, Unique Farmland or Farmland of Statewide Importance designated within the project site boundary.

b) Would the project conflict with existing zoning for agricultural use, or a Williamson Act contract?

No Impact. As stated in the City General Plan, "according to the California Department of Conservation, no Williamson Act encumbered properties are located within the City of Murrieta" (City of Murrieta 2011a). Additionally, the City General Plan Williamson Act Farmland Map (City of Murrieta 2011a, Exhibit 8-5) shows that the project site is not located within Williamson Act Lands. As indicated in the City General Plan 2035 Land Use Policy Map (City of Murrieta 2011a, Exhibit 3-5), the project site is zoned as Commercial (C). Therefore, there would be no impact related to a Williamson Act contract or existing zoning.

c) Would the project conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?

No Impact. The project site is zoned for Commercial (C) use. The site is not zoned for forest land or timberland. The project would have no impact to existing zoning, forest resources, or timberland.

d) Would the project result in the loss of forest land or conversion of forest land to non-forest use?

No Impact. The project site is currently an undeveloped infill site with ongoing mass grading operations and low-lying hills on site. The City General Plan designates the project site for Commercial (C) use. There is no forest land located on the project site. The proposed project would have no impact on forest land.

e) Would the project involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?

Less Than Significant Impact. As stated in the responses to 3.2(b) and 3.2(c), the project site is zoned for Commercial (C) use. There is no existing agriculture, forest land, or timberland located on the project site or immediately adjacent to the project site. There is one segment of Unique Farmland to the north of the project site. At a minimum, this segment of Unique Farmland is 712 feet away from the project site. Because this segment of Unique Farmland is not immediately adjacent to the project site, has at least a 712-foot buffer, and is not in use for farming and agricultural purposes, it is unlikely to be subject to indirect impacts from the proposed project. Therefore, the project would have a less than significant impact on the conversion of Farmland to non-agricultural use or conversion of forest land to non-forest use.

3.3 Air Quality

a) Would the project conflict with or obstruct implementation of the applicable air quality plan?

Potentially Significant Impact. The proposed project site is located in the City of Murrieta, within the South Coast Air Basin, which is a 6,745-square-mile area bounded by the Pacific Ocean to the west and the San Gabriel, San Bernardino, and San Jacinto Mountains to the north and east. It includes all of Orange County and the non-desert portions of Los Angeles, Riverside, and San Bernardino Counties. The project is within the jurisdictional boundaries of the South Coast Air Quality Management District (SCAQMD).

If a project proposes development that is greater than that anticipated in the City's General Plan 2035 and the Southern California Association of Governments' growth projections, the proposed project may conflict with SCAQMD's 2016 Air Quality Management Plan (AQMP) and may contribute to a potentially significant cumulative impact on air quality. A consistency analysis will be conducted in the EIR to determine whether the proposed project would be consistent with the assumptions and objectives of the regional air quality plans and whether it would interfere with the region's ability to comply with federal and state air quality standards. SCAQMD established criteria for determining consistency with the currently applicable AQMP in Chapter 12, Sections 12.2 and

12.3, of the SCAQMD CEQA Air Quality Handbook (CEQA Handbook). The SCAQMD criteria that will be evaluated in the EIR to determine whether the proposed project would potentially conflict with or obstruct implementation of the 2016 AQMP are as follows (SCAQMD 1993):

- **Consistency Criterion No. 1:** The proposed project will not result in an increase in the frequency or severity of existing air quality violations or cause or contribute to new violations, or delay the timely attainment of air quality standards of the interim emissions reductions specified in the AQMP.
- **Consistency Criterion No. 2:** The proposed project will not exceed the assumptions in the AQMP or increments based on the year of project buildout and phase.

b) Would the project result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?

Potentially Significant Impact. Air pollution is largely a cumulative impact. The South Coast Air Basin has been designated as a federal nonattainment area for ozone (O_3) and particulate matter less than or equal to 2.5 microns in diameter (fine particulate matter, or $PM_{2.5}$) and a state nonattainment area for O_3, particulate matter less than or equal to 10 microns in diameter (coarse particulate matter, or PM_{10}), and $PM_{2.5}$. The non-attainment status of regional pollutants is a result of past and present development, and SCAQMD develops and implements plans for future attainment of ambient air quality standards. Based on these considerations, project-level thresholds of significance for criteria air pollutants are used in the determination of whether a project's individual emissions would have a cumulatively considerable contribution on air quality. If a project's emissions would exceed SCAQMD's significance thresholds, it would be considered to have a cumulatively considerable contribution. Conversely, projects that do not exceed the project-specific thresholds are generally not considered to be cumulatively significant (SCAQMD 2003). Further analysis will be conducted in the EIR to determine the potential for the proposed project to contribute to cumulative criteria air pollutant emissions for which the region is in non-attainment.

c) Would the project expose sensitive receptors to substantial pollutant concentrations?

Potentially Significant Impact. The project would expose sensitive receptors in the vicinity to emissions during construction and operations. Construction emissions would consist of criteria pollutants and toxic air contaminants, primarily diesel particulate matter (DPM). Additionally, operation of the project would lead to emissions of DPM from truck idling and truck delivery. Due to the proximity of anticipated project sources of toxic air contaminant emission to the residential receptors and a school located to the south, the proposed project has potential to expose sensitive receptors to substantial pollutant concentrations. An increase in traffic volumes could result in an

increase in carbon monoxide (CO) hotspots, which have the potential to exceed the state 1-hour standard of 20 parts per million (ppm) or the 8-hour standard of 9 ppm. Further analysis will be conducted in the EIR to determine the extent of this impact.

d) Would the project result in other emissions (such as those leading to odors adversely affecting a substantial number of people)?

Potentially Significant Impact. Land uses and industrial operations associated with odor complaints include agricultural uses, wastewater treatment plants, food-processing plants, chemical plants, composting, refineries, landfills, dairies, and fiberglass molding facilities (SCAQMD 1993). The proposed project would not result in the implementation of any such land use. However, further analysis will be conducted in the EIR to determine the potential for construction and operation of the proposed project to expose a substantial number of people to other emissions, including objectionable odors. This issue will be further analyzed in the EIR.

3.4 Biological Resources

a) Would the project have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?

Potentially Significant Impact. Dudek biologists prepared a general biological resources report for the project in 2018, which included a literature review and field survey of the study area (project site and 500-foot buffer up to the I-215 freeway) (Dudek 2018a). The project site is located in the Western Riverside Multiple Species Habitat Conservation Plan (MSHCP) Southwest Area Plan, but is not located within an MSHCP Criteria Cell. The project site occurs within the MSHCP habitat assessment area for burrowing owl and the Narrow Endemic Plant Species Survey Area 4 (San Diego ambrosia, many-stemmed dudleya, spreading navarretia, Wright's trichocoronis, California orcutt grass and munz's onion). As required under the MSHCP, the biological resources report conducted by Dudek also included a habitat assessment for burrowing owl and the Area 4 Narrow Endemic Plant Species.

Although the results of the habitat assessment for burrowing owl were negative, the project site supports potentially suitable habitat for sensitive plant and wildlife species and nesting birds. Implementation of the proposed project would result in the grading of the project site, which may have a substantial adverse effect, either directly or through habitat modifications, on species identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or

regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service.[1] Impacts would be potentially significant; therefore, this issue will be analyzed further in the EIR.

b) Would the project have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?

No Impact. The biological resources report conducted by Dudek in 2018 concluded that the vegetation communities within the study area (project site, plus a 500-foot buffer to the I-215 freeway) are limited to chamise-black sage, chamise-California buckwheat association, disturbed California buckwheat, non-native grassland, disturbed land, and developed land (Dudek 2018a). No riparian habitats occur on site and none of the vegetation communities mapped within the project site are considered sensitive natural communities identified in local or regional plans, policies, regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service. Therefore, implementation of the proposed project would not result in impacts to riparian habitat or sensitive natural communities.

c) Would the project have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?

No Impact. The biological resources report conducted by Dudek concluded that the only water feature within the study area (project site, plus a 500-foot buffer to the I-215 freeway) is an un-vegetated roadside ditch along the northwestern side of the study area (outside of the project site), which appears to be used to manage road runoff associated with I-215 freeway (Dudek 2018). The majority of the ditch is concrete lined and runoff conveyed by the ditch sheetflows and dissipates into undeveloped areas within the study area. This feature is artificially created, does not rely on a fresh water source, and does not convey flows to downstream riverine resources; therefore, it is not a riverine resource as defined by the Western Riverside Multiple Species Habitat Conservation Plan (MSHCP), nor is it considered a state or federal jurisdictional water body or wetland (Dudek 2018a).

In addition, the biological resources report, states that no indicators of ponding were observed within the study area (Dudek 2018). No topographic low points or indicators of ponding were observed within the study area and are not present on historic aerials or topographic maps. The project site does not contain

[1] As of January 1, 2013, the California Department of Fish and Game (CDFG) has changed its name to the California Department of Fish and Wildlife (CDFW). Except in quoted material or when referring to guidance that pre-dates the official name change, this document uses the current name, CDFW.

clay soils, bedrock, or other poorly drained soils typically associated with vernal pools. Furthermore, upon surveying, there are no areas that would likely hold water for an extended amount of time, and therefore the site does not support any vernal pools (Dudek 2018a).

Therefore, implementation of the proposed project will not result in a substantial adverse effect on state or federally protected wetlands as defined by Section 404 of the Clean Water Act through direct removal, filling, hydrologic interruption, or other means.

d) Would the project interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?

Less than Significant Impact. Wildlife corridors are linear features that connect large patches of natural open space and provide avenues for the migration of animals. Habitat linkages are small patches that join larger blocks of habitat and help reduce the adverse effects of habitat fragmentation; they may be continuous habitat or discrete habitat islands that function as stepping stones for wildlife dispersal. Based upon the results of the Dudek biological resources survey (Dudek 2018a), wildlife movement through the project site is unlikely due to the developed nature of surrounding land use. An active mining operation exists to the east, I-215 lies to the west and north, and a small subdivision and school exists to the south. Therefore, the study area has limited to no value as a potential wildlife corridor or habitat linkage. Additionally, the results of the Dudek biological resources survey (Dudek 2018a) that no wetlands, vernal pools, riparian habitat, streams or sensitive native vegetation communities exist within the project site that would provide habitat for fish or native wildlife nursery sites. Impacts associated with the interference with fish and wildlife movement and/or the use of native wildlife nursery sites would be less than significant.

e) Would the project conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?

Potentially Significant Impact. Implementation of the proposed project would result in the grading of the project site, which may conflict with local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance. Impacts would be potentially significant; therefore, this issue will be analyzed further in the EIR.

f) Would the project conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?

Potentially Significant Impact. The project site is located in the Western Riverside Multiple Species Habitat Conservation Plan (MSHCP) Southwest Area Plan, but is not located within an MSHCP Criteria Cell. The project site occurs within the MSHCP habitat assessment area for burrowing owl and the

Narrow Endemic Plant Species Survey Area 4. The target narrow endemic plants within Survey Area 4 are San Diego ambrosia, many-stemmed dudleya, spreading navarretia, Wright's trichocoronis, California orcutt grass and munz's onion. In accordance with the MSHCP, a habitat assessment must be conducted for these species and focused surveys completed if suitable habitat is present. Additionally, a project consistency analysis with the MSHCP would be required. Therefore, impacts would be potentially significant, and this issue will be analyzed further in the EIR.

3.5 Cultural Resources

a) Would the project cause a substantial adverse change in the significance of a historical resource pursuant to §15064.5?

No Impact. The project site is currently vacant, with no structures on site. A cultural resources study was conducted by Dudek, which consisted of a cultural record search of the proposed project area, a Sacred Lands File search with the Native American Heritage Commission (NAHC), and a pedestrian survey of the project area (Dudek 2018b). A California Historical Resources Information Systems (CHRIS) records search was requested on January 10, 2018 from the Eastern Information Center, which houses the cultural resources records for Riverside County. The search included previously recorded cultural resources and investigations within a one mile radius of the project area, a review of the National Register of Historic Places (NRHP) and the California Register of Historic Resources (CRHR), the California Points of Historical Interest list, the California Historical landmarks list, the Archaeological Determinations of Eligibility list, and the California State Historic Resources Inventory list.

Dudek archaeologists conducted an intensive level pedestrian survey on February 13, 2018 using standard archaeological procedures and techniques (Dudek 2018b). No cultural or historic built environment resources were identified. A historic aerials search dating back to 1938 indicated that the surrounding area was used primarily for agriculture and gravel mining and no extensive development occurred in the project area until 2005.

The assessment found no potentially significant historic resources or historic archaeological resources within the boundaries of the subject property. Therefore, the proposed project would result in no impacts to historical resources as defined in Section 15064.5 of the CEQA Guidelines.

b) Would the project cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?

Potentially Significant Impact. Dudek archaeologists conducted an intensive level pedestrian survey on February 13, 2018 using standard archaeological procedures and techniques. No cultural or historic built environment resources was identified (Dudek 2018b). However, the grading and excavation

proposed to create building pads and construct foundations for new buildings would expose previously undisturbed below ground sediment. Archaeological resources could be discovered during ground disturbing activities and such resources could be adversely altered or damaged. Therefore, impacts would be potentially significant and will be analyzed further in the EIR.

c) Would the project disturb any human remains, including those interred outside of dedicated cemeteries?

Potentially Significant Impact. As discussed in the response to 3.5(a), Dudek conducted a records search, pedestrian investigation of the site, and map and historic aerial research. No cultural or historic resources was discovered on the project site (Dudek 2018b). However, due to the possibility of uncovering archaeological materials or human remains during construction, the impact to such resources would be potentially significant and the potential impacts will be further addressed in the EIR.

3.6 Energy

a) Would the project result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?

Potentially Significant Impact. Implementation of the proposed project will require energy use during construction to power heavy equipment, and materials/equipment delivery, and construction worker vehicle use. Energy will also be used in the long-term operation of the commercial development for customer, employee, and delivery vehicle trips, inside and outside lighting, and to power the use of light machinery in the restaurants, bank, tire shop, and retail stores. The potential for significant impacts associated with inefficient or unnecessary energy use by the project exists and will be further addressed in the EIR.

b) Would the project conflict with or obstruct a state or local plan for renewable energy or energy efficiency?

Potentially Significant Impact. As stated in the response to 3.6(a), construction and long-term operation of the commercial development will require the use of energy to power vehicles, equipment and provide lighting. Efficient energy use is addressed at the state and local level through Title 24 requirements and building codes. However, there is the potential for project conflict with state and/or local plans for energy efficiency and renewable energy which will be further addressed in the EIR.

3.7 Geology and Soils

a) Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:

i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.

Less Than Significant Impact. The project site is not located within a designated Alquist-Priolo Fault Zone, as mapped on Exhibit 12-3 of the City General Plan's Safety Element (City of Murrieta 2011a). The Elsinore Fault Zone, which includes the local Elsinore–Temecula Fault, passes through Murrieta to the west of I-15 and is the only Alquist-Priolo Earthquake Fault Zone in the City. The Elsinore–Temecula Fault Zone is capable of generating a maximum earthquake magnitude of 6.8 per the Richter scale. The project site is located approximately 3 miles east of the Elsinore–Temecula Fault Zone. Faulting activity at these faults or other nearby faults could cause ground shaking at the project site. However, because there are no active faults mapped on site, the risk of loss, injury, or death due to ground-surface rupture is not considered likely. The project would be designed in accordance with all seismic requirements contained in the Uniform Building Code, and would not expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving rupture of known earthquake faults. Impacts associated with the rupture of a known earthquake fault would be less than significant.

ii) Strong seismic ground shaking?

Less Than Significant Impact. As stated in the response to 3.7(a)(i), there are no Alquist-Priolo Earthquake Fault Zones mapped within the project site. However, the City of Murrieta is located within the seismically active Southern California region and there are several County earthquake faults mapped in the project area. Additionally, there is a County Earthquake Fault Zone approximately 1.5–2 miles south of the project site. The rupture or shaking of these nearby potentially active faults may cause ground shaking within the project site. However, the project would be constructed in accordance with the Uniform Building Code. Therefore, impacts from ground shaking events would be less than significant.

iii) Seismic-related ground failure, including liquefaction?

Less Than Significant Impact. Liquefaction is a secondary effect of seismic shaking that causes soils to lose the ability to support structures. The primary factors affecting the liquefaction potential of deposit are: (1) intensity and duration of earthquake shaking; (2) soil

type and relative density; (3) overburden pressures; and (4) depth to groundwater. Soils most susceptible to liquefaction are clean, loose, uniformly graded, fine-grained sands, and non-plastic silts that are saturated. Silty sands, under specific site conditions, may also be susceptible to liquefaction. Based on a review of the City General Plan's Safety Element, there are no areas of very high, high, or moderate liquefaction susceptibility mapped within the project site (City of Murrieta 2011a, Exhibit 12-5). There are areas of moderate liquefaction susceptibility mapped within the City of Murrieta, as well as one area of high liquefaction susceptibility in southern Murrieta; however, these soils do not extend onto the project site and would not result in a project hazard. Therefore, impacts associated with liquefaction would be less than significant.

iv) Landslides?

Less Than Significant Impact. The proposed project site is characterized as lowlands between the Hogbacks to the southeast and Greer Ranch Hills to the northwest. The project site is south sloping, with relatively low elevations ranging from 1,530 to 1,560 feet above mean sea level. The surrounding area includes an ongoing mass grading operation to the east with includes two hills that stand approximately 120 feet tall, surrounded by flat land. This area has been proposed for commercial development and would be graded and leveled as a result. Therefore, implementation of the proposed project would result in a less than significant impact associated with landslides.

b) Would the project result in substantial soil erosion or the loss of topsoil?

Potentially Significant Impact. Ground surfaces would be temporarily exposed during construction, which could result in erosion or loss of soil during rain events. Construction projects that involve the disturbance of one or more acres of soil are required to obtain coverage under the State Water Resources Control Board General Permit for Discharges of Storm Water Associated with Construction Activity (Construction General Permit). The Construction General Permit requires the development and implementation of a stormwater pollution prevention plan (SWPPP). The SWPPP would contain site map(s) that depicts the location of best management practices (BMPs) such as silt fencing, sandbag berms, and general good housekeeping methods intended to prevent the off-site discharge of soil or construction materials in stormwater. Following construction of the project, ground surfaces would be stabilized by landscaping and paving. Stormwater generated on site will be directed into a water quality basin where sediment from runoff will settle out. A drainage analysis will be conducted for the site, and this issue will be analyzed further in the EIR.

c) Would the project be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?

No Impact. Review of the City General Plan's Safety Element indicates that the project site is not located within an area susceptible to subsidence, liquefaction, or collapse (City of Murrieta 2011a, Exhibits 12-2, 12-3, and 12-5). During the construction phase of the project, construction crews would grade the project site to a level surface, which would eliminate the possibility of an on-site landslide. As a result, implementation of the proposed project would not result in an impact due to unstable geologic units or soils.

d) Would the project be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating direct or indirect substantial risks to life or property?

No Impact. The Uniform Building Code (1994) defines expansive soils as soils that contain high levels of clay that expand when wet and contract when dry, which can damage building foundations and other structures. According to the Natural Resources Conservation Service (NRCS) web soil survey, the proposed project site contains loam soils, which are primarily made up of a mixture of sand, silt, and clay, rather than clay alone, and do not pose a risk of expanding and contracting in response to moisture (USDA 2018). Therefore, there would be no impact associated with expansive soils.

e) Would the project have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?

No Impact. Wastewater treatment would be provided by Eastern Municipal Water District. Implementation of the proposed project would not include septic tanks or other alternative wastewater treatment methods. Therefore, implementation of the proposed project would result in no impact associated with soils incapable of supporting septic systems or alternative wastewater treatment methods.

f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?

Potentially Significant Impact. Excavation and ground-disturbing activities associated with the construction of the proposed project could adversely alter geological features and paleontological resources, causing potentially significant impacts. A paleontological study will be required and will be included in the EIR.

3.8 Greenhouse Gas Emissions

a) Would the project generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?

Potentially Significant Impact. The proposed project would result in emissions of greenhouse gases (GHGs) during construction and operation. Temporary GHG emissions would result from construction vehicle trips and operation of heavy-duty equipment on site. Additionally, operational emissions would be associated with vehicle trips generated by the proposed project, area sources, energy use, water use, and solid waste disposal. Further analysis is required to determine the impact of estimated project-generated GHG emissions. Impacts would be potentially significant; therefore, this issue will be analyzed in the EIR.

b) Would the project conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

Potentially Significant Impact. Federal, state, and local regulatory measures aim to reduce GHG emissions. The City of Murrieta, as part of the General Plan 2035, has prepared a Climate Action Plan. The purpose of the Climate Action Plan is to address the main sources of emissions that contribute to global climate change. The proposed project would generate GHG emissions during construction and operation, which could conflict with the City's Climate Action Plan, creating a potentially significant impact. Therefore, this issue will be analyzed in the EIR.

3.10 Hazards and Hazardous Materials

a) Would the project create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?

Potentially Significant Impact. Hazardous materials are likely to be handled, transported, and used on site. Specifically, proposed project operations include the handling of gasoline, petroleum based lubricants, and sanitizers and disinfectants. Although all operations would comply with federal, state, and local regulations, impacts associated with the handling, transport, use, and disposal of hazardous materials may be potentially significant, and will be further analyzed in the EIR.

b) Would the project create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?

Potentially Significant Impact. Hazardous materials are likely to be handled, transported, and used on site. These materials may be subject to accidental spills, leaks, fires, explosions, or pressure releases, which may represent a potential threat to human health and the environment if not properly treated.

Although all operations would comply with federal, state, and local regulations, impacts associated with the handling, transport, use, and disposal of hazardous materials and their accident conditions may be potentially significant, and will be further analyzed in the EIR.

c) Would the project emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?

Potentially Significant Impact. The closest school to the project site is Vista Murrieta High School, which is located approximately 120 feet southeast from the proposed project site. Impacts are potentially significant, and this issue will be analyzed further in the EIR.

d) Would the project be located on a site that is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?

Less Than Significant Impact. The provisions in California Government Code Section 65962.5, is commonly referred to as the "Cortese List." The Cortese List, or a site's presence on the list, has bearing on the local permitting process as well as on compliance with CEQA. The California Department of Toxic Substances Control's EnviroStor and the State Water Resources Control Board's GeoTracker online databases are commonly searched to determine the presence or absence of hazardous materials sites included on the Cortese List.

EnviroStor is the California Department of Toxic Substances Control's data management system for tracking cleanup, permitting, enforcement, and investigation efforts at hazardous waste facilities and sites with known contamination or sites where there may be reasons to investigate further.

The EnviroStor database was searched to determine whether any recognized environmental conditions (RECs; e.g., active cleanup sites) are located either on site or within a 1,500-foot radius of the project site. No identified hazardous materials sites were identified on or within 1,500 feet of the project site (DTSC 2018).

GeoTracker is the State Water Resources Control Board's data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater. GeoTracker contains records for sites that require cleanup, such as leaking underground storage tank sites, Department of Defense sites, and cleanup program sites. GeoTracker also contains records for permitted facilities such as irrigated lands, oil and gas production, operating permitted underground storage tanks, and land disposal sites.

The GeoTracker database was also reviewed to determine whether any RECs are located either on site or within a 1,500-foot radius of the project site (SWRCB 2018). No cases or violations (either active or historical) are shown for the project site.

In addition, a Phase I Environmental Site Assessment (ESA) was performed on the project site by IWS Environmental Inc. (IWS) (IWS 2017). This ESA of the project site resulted in the following findings:

- The project site has remained vacant undeveloped land void of any agricultural use or buildings or structures.
- No off-site facilities are considered likely to have affected soil, soil vapor, or groundwater beneath the site.
- No evidence of RECs, historical RECs, or controlled RECs are associated with the site.

Therefore, because the project site is not included on the Cortese List and the Phase I ESA determined the site to be free of any RECs, impacts associated with hazardous materials sites would be less than significant.

e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?

No Impact. The closest public airport or public use airport to the project site is French Valley Airport, which is located approximately 2.6 miles southeast of the project site. The project site does not fall within the scope of the French Valley Airport Master Plan. Additionally, the privately owned Loma Linda University Medical Center-Murrieta Heliport is located approximately 0.85 miles north of the project site. Given the distance between the project site and the heliport, and the fact that there are no determined takeoff or landing routes that would be affected by the project, implementation of the proposed project would not create a safety hazard or excessive noise for people residing or working within the project area, and the project would result in no impact associated with airports.

f) Would the project impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?

Potentially Significant Impact. As described in the City General Plan's Safety Element, there are no defined emergency routes in the City (City of Murrieta 2011a). However, I-215 may be considered an emergency route since it extends through the City and provides access from most of the primary roadways. Clinton Keith Road connects to I-215, and may serve as an emergency route for residents in the surrounding area. Because the proposed project would introduce new traffic to Clinton Keith Road and I-215, impacts would be potentially significant and this issue will be studied further in the EIR.

g) Would the project expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?

Less Than Significant Impact. The proposed project site is surrounded by vacant land to the north, Vista Murrieta High School to the south, existing residential development to the east, and I-215 to the west. The project site is identified by the City's General Plan as occurring within a High Fire Hazard Zone (City of Murrieta 2011a, Exhibit 12-8). However, the project site is located in a predominantly urbanized area, and there are no wildlands adjacent to the project site; therefore, potential impacts resulting from the proposed project exposing people or structures to a significant risk of loss, injury, or death involving wildland fires would be less than significant.

3.11 Hydrology and Water Quality

a) Would the project violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?

Potentially Significant Impact. The proposed project involves the construction of new structures, parking lots, and roadways on the project site. Water quality could be adversely affected by stormwater runoff from the project site. Pollutants that could come from future operations on the site include those involved in vehicle use, tire maintenance, construction, and landscaping activities. These pollutants include fuel, oil, fertilizers, paints, solvents, cleaners, loose soil, and trash. Storm events could carry pollutants to the drainage features, which could then carry pollutants into the Pacific Ocean. The proposed project would comply with necessary standards and requirements in order to obtain a Stormwater Construction Activities permit and a National Pollutant Discharge Elimination System permit from the San Diego Regional Water Quality Control Board. This requires that a SWPPP be prepared and implemented to mitigate and minimize the effects of soil erosion and loss of topsoil. The SWPPP would also contain measures that would require the proper handling, storage, and disposal of hazardous materials, preventing their release into the surrounding environment. The SWPPP would be implemented during construction of the proposed project; however, impacts associated with operations would need to be examined further. Analysis is required to determine whether water quality standards or waste discharge requirements could be violated by operation of the proposed project. Impacts would be potentially significant and will be analyzed further in the EIR.

b) Would the project substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?

Potentially Significant Impact. The proposed project involves the construction of new structures, parking lots, and roadways on the project site. Operational uses would also create a demand on

water supplies from the Eastern Municipal Water District. The increase in water demand combined with an increase in impervious surfaces could substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level. Impacts would be potentially significant; therefore, this issue will be analyzed further in the EIR.

c) Would the project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or through the addition of impervious surfaces, in a manner which:

i) Would result in substantial erosion or siltation on-or off-site;

Potentially Significant Impact. Implementation of the proposed project would involve grading, leveling, and paving of the project site. Although the project site is relatively flat, these operations could substantially alter the existing drainage pattern of the site or area in a manner that could result in substantial erosion or siltation on or off site. Impacts would be potentially significant; therefore, this issue will be analyzed further in the EIR.

ii) Substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off site:

Potentially Significant Impact. Implementation of the proposed project would involve grading, leveling and paving of the project site. Although the project site is relatively flat, these operations could substantially alter the existing drainage pattern of the site or area, or substantially increase the rate or amount of surface runoff, in a manner that would result in flooding on or off site. Impacts would be potentially significant; therefore, this issue will be analyzed further in the EIR.

iii) Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or

Potentially Significant Impact. Implementation of the proposed project would change the condition of the project site from a pervious surface to an impervious surface, which would potentially generate runoff that could substantially degrade water quality. The project includes constructions of bio-retention basins and other stormwater management features, however, impacts would be potentially significant; therefore, this issue will be analyzed further in the EIR.

iv) Impede or redirect flood flows?

No Impact. The Federal Emergency Management Agency Flood Map Service Center identifies the project site as Zone X, which is classified as an area of minimal flood hazard, outside of the Special Flood Hazard Area and higher than the elevation of the 0.2%-annual-chance flood (FEMA 2018). Additionally, the City of Murrieta General Plan Safety Element (City of Murrieta 2011a, Exhibit 12-6, FEMA Flood Zones) also identifies the project site as outside the 100-year flood hazard area. Therefore, the project would not impede or redirect flood flows and thus would result in no impact.

d) Would the project, in flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?

No Impact. The City General Plan's Safety Element (City of Murrieta 2011a, Exhibit 12-7, Dam Inundation Map) does not place the project site within a dam inundation zone and the project is mapped as outside of the 100-year flood hazard area (City of Murrieta 2011a, Exhibit 12-6, FEMA Flood Zones). The project site is not located within a potential tsunami inundation area and is located approximately 94 miles east of the Pacific Ocean. Damage to the project site due to a seiche, a seismic-induced wave generated in a restricted body of water, is not likely at the site because no such bodies of water are located near the site. No impact would occur, and this issue will not be analyzed further in the EIR.

e) Would the project conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?

Potentially Significant Impact. Implementation of the proposed project would result in the construction of new impervious surfaces that could increase the amount of stormwater runoff containing urban pollutants that is discharged into local waterways and/or reduce the potential for groundwater recharge. There is the potential for conflict with implementation of a water quality plan or sustainable groundwater management plan, therefore, this issue will be analyzed further in the EIR.

3.12 Land Use and Planning

a) Would the project physically divide an established community?

No Impact. The project site is a 6.2-acre undeveloped infill site. The project site is located in the northern portion of the City of Murrieta, on the northeast corner of the intersection of I-215 and Clinton Keith Road. It is surrounded by vacant land that is proposed for future commercial development to the east, the I-215 to the west, vacant land to the north, and Vista Murrieta High School and residential development to the south. Thus, the project would not physically divide an established community, and no impacts would occur.

b) Would the project cause a significant environmental impact due to a conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project adopted for the purpose of avoiding or mitigating an environmental effect?

No Impact. The City General Plan's Land Use Map (City of Murrieta 2011a) designates the project site as Commercial (C). The City's Zoning Map (City of Murrieta 2014) shows the site as being zoned Regional Commercial (RC). The City General Plan's Specific Plan Areas Map (City of Murrieta 2011a, Exhibit 3-1) shows that the project site is not within a Specific Plan or Future Specific Plan Boundary. The proposed project would not conflict with any applicable land use plan, policy, or regulation; therefore, no impact would occur.

3.13 Mineral Resources

a) Would the project result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?

No Impact. The State Mining and Reclamation Act of 1975 (SMARA; California Public Resources Code Section 2710 et seq.) requires that the California State Geologist implement a mineral land classification system to identify and protect mineral resources of regional or statewide significance in areas where urban expansion or other irreversible land uses may occur, thereby potentially restricting or preventing future mineral extraction on such lands.

As mandated by SMARA, aggregate mineral resources within the state are classified by the State Mining & Geology Board through application of the Mineral Resource Zone (MRZ) system. The MRZ system is used to map all mineral commodities within identified jurisdictional boundaries, with priority given to areas where future mineral resource extraction may be prevented or restricted by land use compatibility issues, or where mineral resources may be mined during the 50-year period following their classification. The MRZ system classifies lands that contain mineral deposits and identifies the presence or absence of substantial sand and gravel deposits and crushed rock source areas (i.e., commodities used as, or in the production of, construction materials). The State Geologist classifies MRZs within a region based on the following factors:

- **MRZ-1:** Areas where adequate information indicates that no significant mineral deposits are present, or where it is judged that little likelihood exists for their presence.
- **MRZ-2:** Areas where adequate information indicates that significant mineral deposits are present, or where it is judged that a high likelihood exists for their presence.
- **MRZ-3:** Areas containing mineral deposits for which the significance cannot be determined from available data.
- **MRZ-4:** Areas where available information is inadequate for assignment of any other MRZ category.

According to maps obtained through the California Department of Conservation and California Geological Survey, the project site is within an MRZ-3 zone, meaning that it is in an area where the significance of mineral deposits is undetermined. Currently, a mass grading operation exists directly east of the site, where some materials are extracted from the site and sold as construction grade products by North County Sand and Gravel. However, current operations are classified solely as mass grading operations, and no surface mining permits have been issued by the City or the County. Furthermore, the City General Plan's Conservation Element (City of Murrieta 2011a, Exhibit 8-1, Mineral Resources) shows the locations of known resources within the City. The closest site containing mineral deposits is located approximately 1.2 miles north of the project site, and contains some gold deposits. Given the project site's lack of identification as a known resource site, and lack of issuance of any mining permit from any jurisdiction or regulatory agency, no impacts would occur from the loss of availability of a known mineral resource that would be of value to the region and the residents of the state.

b) Would the project result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan?

No Impact. As stated above, the City General Plan's Conservation Element (City of Murrieta 2011a, Exhibit 8-1) maps the locations of known resources that are of local importance. The closest site containing mineral deposits is located approximately 1.2 miles north of the project site, and contains some gold deposits. Given the considerable distance away from the closest site containing mineral resources, no impact would occur on locally important mineral resource recovery sites.

3.14 Noise

a) Would the project result in generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies

Potentially Significant Impact. Section 16.30 of the City's Development Code (Noise Ordinance) has established interior and exterior noise regulations that vary depending on time of day. The proposed project could expose persons to noise levels in excess of standards established in the local Noise Ordinance. Construction may result in short-term ambient noise and vibration due to construction activities such as grading or demolition. In addition, the proposed project could result in the exposure of persons to excess noise levels due to operation activities and employee and customer vehicles in and around the project site. This issue will be further analyzed in the EIR.

b) Would the project result generation of excessive groundborne vibration or groundborne noise levels?

Potentially Significant Impact. The proposed project could result in exposure of persons to excessive groundborne vibration or groundborne noise levels. As previously addressed, construction activities and construction vehicles have the potential to exceed noise standards established in the City's Noise Ordinance. The project may generate excessive groundborne vibration or noise levels; therefore, impacts would be potentially significant. This issue will be analyzed further in the EIR.

c) Would the project be located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?

No Impact. The closest public airport or public use airport to the project site is French Valley Airport, which is located approximately 2.5 miles southeast of the project site. The project site does not fall within the scope of the French Valley Airport Master Plan; therefore, implementation of the proposed project would not expose people residing or working within the project area to excessive noise levels. No impacts associated with public or public use airports would occur.

There are no private airstrips within the vicinity (within a 2-mile radius) of the project site. However, the Loma Linda University Medical Center-Murrieta Heliport is located approximately 0.85 miles north of the project site. Given the distance between the project site and the heliport, implementation of the proposed project would not expose people residing or working in the project area to excessive noise levels. No impact associated with private airstrips would occur.

3.15 Population and Housing

a) Would the project induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?

Potentially Significant Impact. The proposed project involves the construction of a commercial retail center, which would include a tire store, a bank, restaurants and other retail developments. It is anticipated that the proposed retail businesses would employ approximately 20 full-time employees. Because this project could be growth-inducing, this issue will be analyzed further in the EIR.

b) Would the project displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?

No Impact. The proposed project would not displace any housing, as the site is currently vacant. Therefore, no impacts associated with displacement of housing would occur.

3.16 Public Services

a) Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for any of the public services:

Fire protection?

Potentially Significant Impact. The proposed project could have an adverse impact on fire protection providers. Because the proposed project represents new construction, with new retail uses on site, additional calls for service could result. These additional calls could affect the service ratio, response time, or other performance objectives of fire protection services. Impacts would be potentially significant; therefore, further analysis is required and this issue will be addressed in the EIR.

Police protection?

Potentially Significant Impact. The proposed project may have an adverse impact on police protection providers. Because the proposed project includes new construction with new retail uses, additional calls for service could result, which could affect the service ratio, response time, or other performance objectives of police protection services. Impacts would be potentially significant; therefore, further analysis is required and this issue will be addressed in the EIR.

Schools?

Potentially Significant Impact. The proposed project could bring approximately 20 full-time employees and their families to the area, possibly generating new permanent residents within the City who could increase the current demand on schools. Impacts would be potentially significant, and this issue will be further analyzed in the EIR.

Parks?

Potentially Significant Impact. The proposed project could bring approximately 20 full-time employees and their families to the area, possibly generating new permanent residents within the

City who could increase current demand on parks. Impacts would be potentially significant, and this issue will be further analyzed in the EIR.

Other public facilities?

Potentially Significant Impact. The proposed project could bring approximately 20 full-time employees and their families to the area, possibly generating new permanent residents within the City who could increase current demand on public libraries or other public facilities. Impacts would be potentially significant, and this issue will be further analyzed in the EIR.

3.17 Recreation

a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?

Potentially Significant Impact. The proposed new retail development would employ approximately 20 full-time employees. These new employees could create an increased demand for neighborhood and regional parks and other recreational facilities. Impacts associated with the increased use of existing neighborhood and regional parks would be potentially significant; therefore, this issue will be analyzed in the EIR.

b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?

Potentially Significant Impact. The proposed project does not include recreational facilities but it could require the construction or expansion of recreational facilities. Therefore, impacts would be potentially significant and this issue will be analyzed in the EIR.

3.18 Transportation and Traffic

a) Would the project conflict with program plan, ordinance or policy addressing the performance of the circulation system, including transit, roadway, bicycle and pedestrian facilities?

Potentially Significant Impact. The proposed project has the potential to generate new vehicle trips that could affect streets surrounding the site, which include Clinton Keith Road and Antelope Road. An increase in vehicle trips would result in potentially significant impacts.

Additionally, the City General Plan's Circulation Element (City of Murrieta 2011a) establishes policies regarding public transit, bicycle, and pedestrian facilities. The proposed project would generate new trips to and from the project site, which would potentially decrease the performance or

safety of such facilities. Impacts would be potentially significant. A traffic impact analysis will be conducted and the results will be included in the EIR.

b) Would the project conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)(1)?

Potentially Significant Impact. The proposed project may result in an increase in traffic along Clinton Keith Road, Antelope Road, and other regional routes and could exceed the level of service standards, and result in an increase in vehicle miles traveled, impacts would be potentially significant. A traffic impact analysis will be conducted and the results will be included in the EIR.

c) Would the project substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?

Potentially Significant Impact. The proposed project would involve the construction of a new roadway, which would enable access via Clinton Keith Road (Figure 2). To ensure that this project element would not introduce hazardous circulation or design features, further analysis is needed to determine whether there is any hazard risk associated with the proposed project design. Impacts would be potentially significant. A traffic impact analysis will be conducted and the results will be included in the EIR.

d) Would the project result in inadequate emergency access?

Potentially Significant Impact. The proposed project would involve the construction of new structures, roadways, and intersections, and would generate new trips to and from the project site. These features would potentially interfere with emergency access, and impacts would be potentially significant. A traffic impact analysis will be conducted and the results will be included in the EIR.

3.19 Tribal Cultural Resources

a) Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:

i) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k)?

Potentially Significant Impact. As indicated in the response to 3.5(a), the project site is currently vacant, with no structures on site. As part of the cultural resources study, a Sacred Lands File Search with the NAHC was conducted, as well as a pedestrian survey of the project

area. No cultural resources were found on the project site. A response letter was received via email from the NAHC on February 20, 2018 (Dudek 2018b). The results of the Sacred Lands File search indicated the presence of Native American cultural resources within the project area and stated that the Pechanga Band of Luiseño Indians should be contacted for additional information. The NAHC also provided a list of 24 additional Native American groups and individuals who may have knowledge of cultural resources in the project area. Impacts would be potentially significant and this issue will be further analyzed in the EIR.

ii) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1? In applying the criteria set forth in subdivision (c) of Public Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.

Potentially Significant Impact. In accordance with California Assembly Bill 52 requirements, the City will need to contact tribes interested in consultation. Impacts would be potentially significant, and this issue will be analyzed in the EIR.

3.20 Utilities and Service Systems

a) Would the project require or result in the relocation or construction of new or expanded water, or wastewater treatment, or storm water drainage, electric power, natural gas, or telecommunications facilities or expansion of existing facilities, the construction or relocation of which could cause significant environmental effects?

Potentially Significant Impact. The proposed project would involve the construction of a commercial retail center. The construction would result in an increase in demand for wastewater treatment, potable water, electric power, natural gas, and telecommunications services. The proposed project could require the construction of new or expanded utility lines or connections to serve the project site. Additionally, the creation of new impervious surfaces on site will result in an increase in stormwater runoff that will require the construction of new on-site stormwater drainage facilities.

Further analysis will be conducted to determine the projected utility demand and whether this demand would require construction of additional facilities. Although on-site stormwater drainage facilities, including bio-retention basins are proposed as part of the project, additional analysis is required to determine whether off-site stormwater drainage facilities will also be required. Impacts would be potentially significant, and this issue will be analyzed further in the EIR.

b) Would the project have sufficient water supplies available to serve the project from existing entitlements and resources, and reasonably foreseeable future development during normal, dry and multiple dry years or are new or expanded entitlements needed?

Potentially Significant Impact. The proposed project would result in the construction of new buildings and landscaping, which would result in an increase in water demand. Further analysis is required to determine the expected water demands and whether the current water supplies are sufficient, or whether new or expanded entitlements would be needed. Impacts would be potentially significant, and this issue will be analyzed further in the EIR.

c) Would the project result in a determination by the wastewater treatment provider, which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?

Potentially Significant Impact. As previously discussed in response 3.19(b), the proposed project would involve construction of new buildings for new uses on a previously undeveloped site. The Eastern Municipal Water District has issued a determination, as the designated wastewater treatment provider, that it has adequate capacity to serve the project's projected demand in addition to its existing commitments. However, additional analysis needs to be conducted to determine if there is adequate capacity to serve the project's projected demand. Impacts would be potentially significant, and this issue will be analyzed further in the EIR.

d) Would the project generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?

Potentially Significant Impact. Once construction is completed, retail and restaurant operations would occur on the project site. These operations would generate waste, and further analysis is required to determine the increase in solid waste generated by the project. Impacts would be potentially significant, and this issue will be analyzed in the EIR.

e) Would the project comply with federal, state, and local management and reduction statutes and regulations related to solid waste?

Potentially Significant Impact. The proposed project would be required to comply with federal, state, and local statutes and regulations related to solid waste. Further investigation is required to confirm that the proposed project would comply with these regulations. Impacts would be potentially significant, and this issue will be analyzed in the EIR.

3.21 Wildfire

a) Would the project substantially impair an adopted emergency response plan or emergency evacuation plan?

Potentially Significant Impact. The City of Murrieta's Emergency Preparedness Program is under the direction of the Community Risk Reduction Division (CRR), which is responsible for minimizing the impact of natural and manmade disasters in the City. The CRR prepared an Emergency Operations Plan and Local Hazard Mitigation Plan, both of which address wildfire. Implementation of the proposed project would not impair the implementation of these plans, however, the proposed project would involve the construction of new structures, roadways, and intersections, and would generate new trips to and from the project site. These features would potentially interfere with emergency access, and impacts would be potentially significant. Impacts would be potentially significant, and this issue will be analyzed in the EIR.

b) Would the project, due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?

Less than Significant Impact. The proposed project site is identified by the City's General Plan as occurring within a High Fire Hazard Zone (City of Murrieta 2011a, Exhibit 12-8). However, the project site is located in a predominantly urbanized area, with the I-215 to the west, vacant land to the north, Vista Murrieta High School to the south, and existing residential development to the east. There are no wildlands adjacent to the project site or specific site factors that would exacerbate wildfire risks. Therefore, potential impacts resulting from the exposure of project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire, would be less than significant.

c) Would the project require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?

Less than Significant Impact. Implementation of the proposed project would include the construction of roadway improvements and extension of utilities on site, however, due to the project location in an urbanized area, no fuel breaks, dirt roads, emergency water sources, or the extension of power lines and other utilities into wildland areas would be required that could exacerbate fire risk. The potential for impacts associated with fire risk due to the construction or maintenance of infrastructure for the project would be less than significant.

d) Would the project expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?

Less than Significant Impact. The proposed project includes grading to a level condition, paving, construction of buildings, and installation of landscaping throughout the entire site. There are no slopes planned for the project site that could produce landslides or result in post-fire slope instability. The project site is not located in a flood zone and stormwater generated on site will be directed into the proposed bio-retention basins and stormdrain facilities. The potential for impacts associated with flooding or slope instability in a post-fire condition would be less than significant.

3.22 Mandatory Findings of Significance

a) Does the project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal, or eliminate important examples of the major periods of California history or prehistory?

Potentially Significant Impact. Based upon the results of the Dudek biological resources survey, the proposed project site does not support special status vegetation communities or state or federal wetlands (Dudek 2018). However, the proposed project would have the potential to substantially reduce the habitat of a fish or wildlife species, to cause a fish or wildlife population to drop below self-sustaining levels, to threaten elimination of a plant or animal community, or to reduce the number or restrict the range of a rare or threatened endangered plant or animal. This issue will be analyzed in the EIR

A cultural and historic records search determined that there were no historic structures found on the site. As such, the proposed project would not eliminate an important example of a major period of California history, however, previously unknown below ground archeological resources may occur that could be impacted by project grading and excavation.

The project site may be underlain by fossil-bearing soils. Excavations made during construction have the potential to uncover important paleontological resources. Impacts would be potentially significant, and this issue will be analyzed in the EIR.

The Native American Heritage Commission, Eastern Information Center records, and responding Native American tribes will be consulted regarding the presence of archaeological resources at the project site or to identify areas of known cultural and tribal value. The potential for discovery of

cultural resources or tribal cultural resources during construction may lead to potentially significant impacts, and tribal cultural resources will be analyzed in the EIR.

b) Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?

Potentially Significant Impact. The proposed project may have impacts that are individually limited, but may be cumulatively considerable, depending on other current or probable future projects in the vicinity. The EIR will evaluate potential project-related cumulative impacts.

c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?

Potentially Significant Impact. As discussed in previous sections, environmental effects that would cause substantial adverse effects on human beings, either directly or indirectly, may occur from implementation of the proposed project. Further evaluation of potentially significant impacts will be conducted in the EIR relative to aesthetics, air quality (related to project operation and construction), GHG (related to project operation and construction), noise (related to project operation and construction), transportation/traffic (related to project operation and construction), and water use and waste generation (related to project operation).

4 REFERENCES AND PREPARERS

4.1 References Cited

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4.2 List of Preparers

City of Murrieta

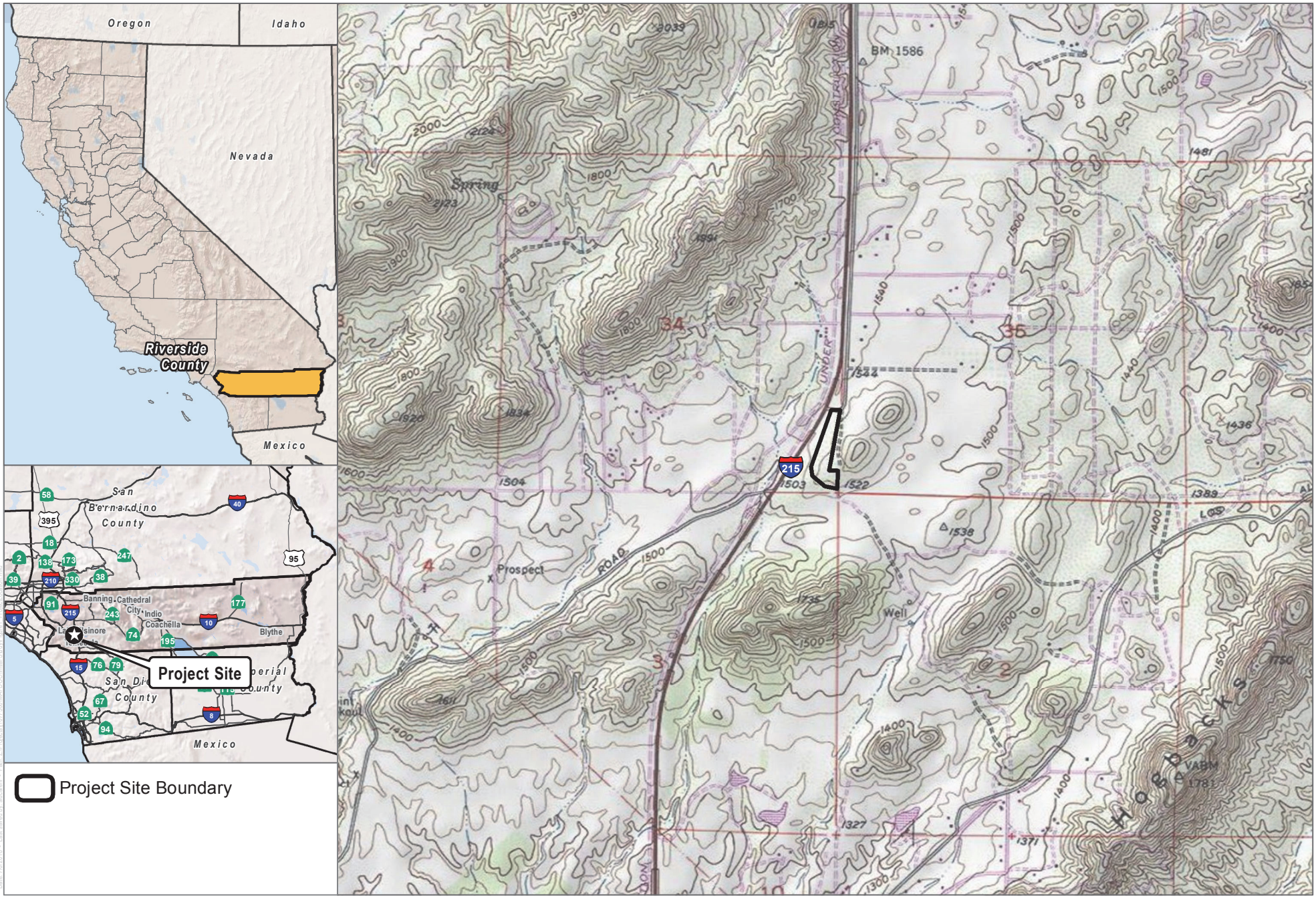
Jeff Murphy, Development Services Director
James Atkins, Project Planner
Bob Moehling, City Engineer

Retail Development Advisors

Allan L. Davis, President

Dudek

Shelah Riggs, Project Manager
Rachel Struglia, PhD, AICP, Environmental Task Lead
Dana Link-Herrera, Analyst
Patrick Cruz, Analyst
Mike Greene, Noise
Linda Kry, Archaeologist
Linda Archer, Senior Biologist
Anna Cassady, Biologist
Jennifer Reed, Air Quality Manager
Spencer Lucarelli, GIS
Laurel Porter, Technical Editor
David Mueller, Publications Specialist



SOURCE: USGS 7.5-Minute Series Murrieta Quadrangle

DUDEK

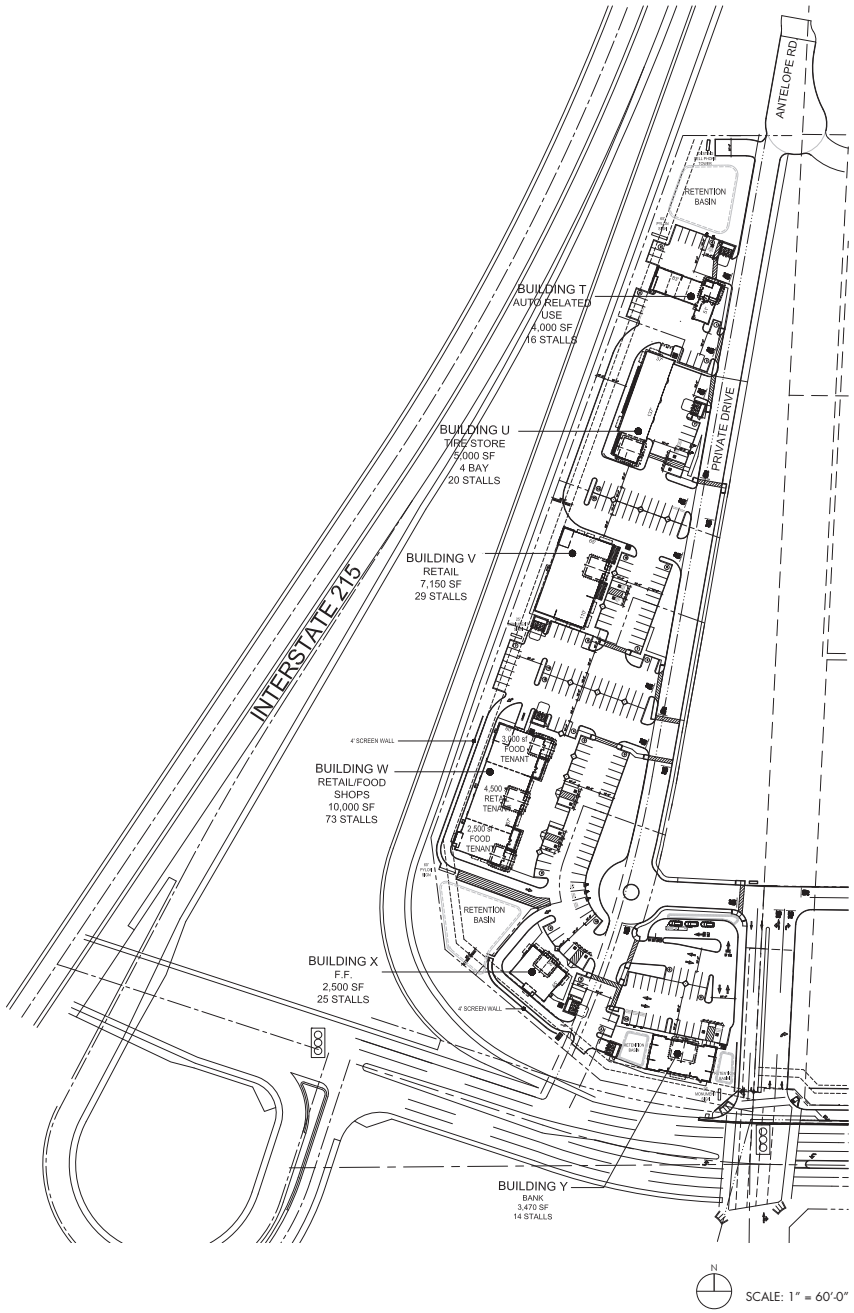
0 1,000 2,000 Feet

FIGURE 1

Project Location

Initial Study for the Vineyards II Curci Project

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SOURCE: Architects Orange 2018

FIGURE 2

Site Plan

Initial Study for the Vineyards II Curci Project

DUDEK

Z:\Projects\IS7300\MAP\DOC\Initial Study

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APPENDIX A

Initial Study/Notice of Preparation Distribution List

State Clearinghouse
1400 Tenth Street
Sacramento, CA 95814
Attn: Ken Alex

U.S. Department of the Army
Army Corps of Engineers Environmental Resources Branch
Attn: Planning
915 Wilshire Boulevard
Los Angeles, CA 90017

U.S. Fish & Wildlife Service
Karin Cleary-Rose
777 E Tahquitz Canyon Dr Ste 208
Palm Springs, CA 92262

Department of Fish and Wildlife, Region 6
3602 Inland Empire Blvd, Suite C-220
Ontario, CA 91764

Regional Water Quality Control Board
San Diego Region (9)
9174 Sky Park Court #100
San Diego, CA 92123

South Coast AQMD
21865 East Copley Drive
Diamond Bar, CA 91765-4182
Attn: Al Baez, Program Supervisor
Local Government-CEQA

Riverside Co Transportation Dept
Attn: Trans. Planning Manager
P O Box 1090
Riverside, CA 92502-1090

SCAG
3403 10th Street, Suite 805
Riverside, CA 92501
Attn: Cheryl Leising

Western Riverside Council of Governments (WRCOG)
3390 University Avenue
Suite 450
Riverside, CA 92501

Riverside Transit Agency
1825 Third Street
Riverside, CA 92517-1968

Riverside County
Habitat Conservation Agency
3390 University Avenue, Suite 450
Riverside, CA. 92501

Riverside Co Flood Control District
1995 Market Street
Riverside, CA 92501
Attn: Mike Wong

Eastern Municipal Water District
Attn: Planning
P O Box 8300
Perris, CA 92572-8300

Southern California Gas Co.
P O Box 3003
Redlands, CA 92373-0306
Attn: Technical Supervisor

Southern California Edison
Attn: Jeremy Goldman
24487 Prielipp Rd.
Wildomar, CA 92595

Pechanga Band of Luiseno Indians
Attn: Mark Macarro, Chairperson
P O Box 1477
Temecula, CA 92593

Temecula-Elsinore-Murrieta-Anza
Resource Conservation Dist.
Michael W. Newcomb, Director
P.O. Box 2078
Temecula, CA 92593

Airport Land Use Commission
Attn: John Guerin
4080 Lemon Street, 14th Floor
Riverside, CA 92502

Murrieta Valley Unified School Dist.
41870 McAlby Ct.
Murrieta, CA 92562
Attn: Bill Olien

Union for a River
Greenbelt Environment
26785 Camino Seco
Temecula, CA 92590
Attn.: Ray Johnson

Regional Conservation Authority
Attn: Charles Landry
3403 Tenth Street, Suite 320
Riverside, CA 92501

U.S. Bureau of Land Management
Palm Springs South Coast Field Office
1201 Bird Center Dr.
Palm Springs, CA 92262

California Dept. of Forestry & Fire
Riverside Unit
210 W. San Jacinto
Perris, CA 92570

California Department of Resources and Recycling
1955 Chicago Avenue, Suite 100
Riverside, CA 92507-2383

Riverside Co. Housing Authority
5555 Arlington Ave.
Riverside, CA 92504

County of Riverside Planning Dept.
P.O. Box 1409
Riverside, CA 92502-1409

Riverside Co. Dept. of Environmental Health
38740 Sky Canyon Dr.
Murrieta, CA 92563

Riverside Co. Transportation & Land Management Agency
Environmental Programs
4080 Lemon St. 2nd Floor
Riverside, CA 92502-1629

Riverside Local Agency Formation Commission
3850 Vine St. #240
Riverside, CA 92507

City of Murrieta City Hall
Planning Division.
Dennis Watts, Project Planner
1 Town Square
Murrieta CA, 92562

City of Wildomar
Matthew Bassi, Planning Director
23873 Clinton Keith Rd. #201
Wildomar, CA 92595

City of Wildomar
Dan York, Director of Public Works/Eng.
23873 Clinton Keith Rd. #201
Wildomar, CA 92595

City of Temecula
Attn: Community Dev. Department
41000 Main Street
Temecula, CA 92590

City of Temecula
Patrick Thomas, Director of Public Works/Eng.
4100 Main Street
Temecula, CA 92590

Murrieta Police Dept.
Sean Hadden, Chief of Police
2 Town Square
Murrieta, CA 92562

Wildomar Police Dept.
Cpt. Shelley Kennedy-Smith
333 Limited Ave.
Lake Elsinore CA 92530

Temecula Police Dept.
Chief Lisa McConnel
30755-A Auld Road
Murrieta, CA 92563

Riverside County Fire Dept. – Planning Division
Walter Brades, Deputy Fire Marshal
2300 Market St. #150
Riverside, CA 92501

Murrieta Fire Dept.
Scott Ferguson, Fire Chief
41825 Juniper Street
Murrieta, CA 92562

Wildomar Fire Dept.
Todd Phillips, Fire Chief
32637 Gruwell Street
Wildomar, CA 92595

Temecula Fire Dept.
Charlie DeHart, Chief
41000 Main Street
Temecula, CA 92590

Waste Management of Inland Valley
800 S. Temescal St.
Corona, CA 92879

Metropolitan Water District
Attention: MWD Environmental Planning
700 N. Alameda St.
Los Angeles, CA 90012

Murrieta Public Library
8 Town Square
Murrieta, CA 92562

Riverside Co. Assessor County Clerk Recorder
Attn: Peter Aldana
P.O. Box 751
Riverside, CA 92502-0751

Riverside County Waste Mgmt. Dept.
Attn: Planning
14310 Frederick Street
Moreno Valley CA 92553

California Department of Transportation
District 8
Planning (MS 722)
464 West 4th Street, 6th Floor
San Bernardino, CA 92401-1400

Dan Silver, Executive Director
Endangered Habitats League
8424 Santa Monica Blvd., Suite A 592
Los Angeles, CA 90069-4267

Joseph Ontiveros
Cultural Resource Director
Soboba Band of Luiseno Indians
P.O. Box 487
San Jacinto, CA 92581

Jim McPherson
Rincon Cultural Resources Department
Rincon Band of Luiseno Indians
1 West Tribal Road
Valley Center, CA 92082

Raymond Huaute
Cultural Resource Specialist
Morongo Band of Mission Indians
12700 Pumarra Road
Banning, CA 92220

Patricia Garcia
Director of Tribal Historic Preservation Office
Agua Caliente Band of Cahuilla Indians
5401 Dinah Shore Drive
Palm Springs, CA 92264

City of Menifee
Community Dev Department
29714 Haun Road
Menifee CA 92586

City of Menifee
Jonathan G. Smith Director of Public Works/Engineering
29714 Haun Road
Menifee CA 92586

Menifee Union School District
Robert Wolfe
30205 Menifee Road
Menifee CA 92584

Perris Union High School District
District Administrative Center
155 East 4th Street
Perris CA 92570

Riverside County Transportation Commission
4080 Lemon Street 3rd Floor
Riverside CA 92501

Building Industry Association
Riverside County Chapter
3891 11th Street
Riverside CA 92501

California Native American Heritage Commission
1550 Harbor Blvd Suite 100
West Sacramento CA 95691

State Water Resources Control Board
PO Box 100
Sacramento CA 95812-0100

392-270-030
SCOTT-215 LP
41623 MARGARITA RD 100
TEMECULA, CA 92591

392-290-019
KING,ILLY
1102 VIA HISPANO
NEWBURY PARK, CA 91320

392-290-023
GOLDEN CITY GROUP III
17946 SUNRISE DR
ROWLAND HEIGHTS, CA 91748

392-290-025
CANDEE FAMILY
9928 OLATHE ST
COMMERCE CITY, CO 80022

392-290-051
CK 17
41623 MARGARITA RD 100
TEMECULA, CA 92591

392-450-022
CARLMART
7220 AVENIDA ENCINAS 204
CARLSBAD, CA 92011

392-450-025
CITY OF MURRIETA
1 TOWN SQ
MURRIETA, CA 92562

392-450-026
HACIENDA INV
1756 LACASSIE AVE 101
WALNUT CREEK, CA 94596

900-030-022
MURRIETA VALLEY UNIFIED
SCHOOL D
26396 BECKMAN CT
MURRIETA, CA 92562

900-040-024
PACIFIC LANDING
11075 CARMEL MOUNTAIN RD 200
SAN DIEGO, CA 92129

- 10 PRINTED -
* DUPLICATE OWNERS REMOVED

NOTICE OF PREPARATION OF A DRAFT ENVIRONMENTAL IMPACT REPORT

To: Agencies and Interested Parties

From/Lead Agency: City of Murrieta Planning Division

Date: March 20, 2019

Subject: **Notice of Preparation of an Environmental Impact Report for the Vineyard III Retail Development Project**

After evaluation of an Initial Study completed for the proposed project in March 2019, the City of Murrieta (City) as the lead agency has determined that the proposed Vineyard III Retail Development Project (proposed project) may have a significant effect on the environment, and an environmental impact report (EIR) is required in compliance with the California Environmental Quality Act (CEQA).

This Notice of Preparation (NOP) provides information describing the proposed project and its potential environmental impacts in order to solicit public and agency comments as to the scope of environmental issues, reasonable alternatives, and mitigation to include in the Draft EIR. The Draft EIR will describe the project need, goals, and objectives, baseline environmental conditions in the project study area, and the potential environmental impacts associated with the implementation of the proposed project. Alternatives to the proposed project and the potential effects of those alternatives will also be described and analyzed in the Draft EIR.

Due to time limits mandated by state law, your response to this NOP must be submitted at the earliest possible date **but no later than 30 days** after receipt of this notice. Written comments on the NOP and on the contents of the forthcoming Draft EIR should be submitted to James Atkins, Associate Planner, at the address below by April 22, 2019. Please include the name for a contact person in your agency. If you have any questions, please contact James Atkins at (951) 461-6414, via email at JAtkins@MurrietaCA.gov, or in writing at:

City of Murrieta Planning Division
One Town Square
Murrieta, California 92562

This NOP can be found on the City of Murrieta's website at:
http://www.murrietaca.gov/departments/planning/public_hearing_notices/default.asp

PROJECT SETTING

The proposed project is located in the City of Murrieta, Riverside County, California. Specifically, the project site is located at the northeast corner of the Interstate 215 Freeway (I-215) and Clinton Keith Road. Additionally, the project site is located on the U.S. Geological Survey (USGS) 7.5-minute Murrieta quadrangle, in Section 34 of Township 6 South, Range 3 West. The project site consists of an approximately 6.2-acre vacant parcel, with elevations that range from 1,530 to 1,560 feet above mean sea level. The project site is surrounded by a site to the east that has been subject to an ongoing mass grading operation for several years to provide fill material/rock for construction purposes, and is currently proposed for development of a commercial retail center, including a Costco. The I-215 is located to the west and north, as well as vacant land to the north. To the south and across Clinton Keith Road is a residential subdivision and Vista Murrieta High School. The City's General Plan Land Use Map designates the project site as Commercial (C). The City's Zoning Map shows the site as being zoned Regional Commercial (RC).

PROJECT DESCRIPTION

The project applicant, Retail Development Advisors, proposes the grading, construction, and operation of a new retail development consisting of a bank, tire store, auto-related service/retail store, retail building with space for three to four retail/food tenants with drive through lane, detached foot fast food restaurant with drive through, larger single tenant retail building, and associated parking, within a 6.2-acre vacant property. The proposed 3,470-square-foot bank would include a two-lane drive-through ATM station, along with 30 designated parking stalls. The 5,000-square-foot tire store would have four bays and hydraulic lifts where customers could have new tires installed on their vehicles. The 4,000-square-foot auto related services/retail store would sell materials related to general vehicle maintenance, such as oil- and synthetic-based lubricants, headlight replacements, and batteries. No maintenance activities would be allowed within parking areas. The proposed 7,150-square-foot retail store may be an auto parts store, office supply store, pet supply store, health and beauty store, shoe store, or other similar retailers. The 10,000 square foot three or four-tenant food and retail pad would house retail or service tenants and two food tenants. One of the food tenants would have a drive through lane on the west and south of the building. Both tenants would have casual dining spaces. The retail space would be used for a retail/service tenant with a service-oriented business such as a pick up and drop off dry cleaner (no plant on site), hair salon, and phone store.

Four bio-retention basins that would be located in the northwest and southwest corners of the site, and adjacent to the proposed bank building, so that runoff from the proposed buildings and parking lots can be captured, percolate into the groundwater table, and reduce the rate of stormwater discharged offsite to pre-development condition. Two 65-foot-tall pylon signs, visible from I-215, will be constructed along the western property boundary. Construction of a

private access drive at the Creighton Road intersection with Clinton Keith Road and associated improvements to the intersection.

ISSUES OF CONCERN

As identified in the attached Initial Study, probable environmental impacts of the project include aesthetics, air quality, biological resources, cultural resources, geology and soils, greenhouse gas emissions, hazards and hazardous materials, hydrology/water quality, land use and planning, noise, population and housing, public services, recreation, transportation/traffic, tribal cultural resources, utilities and service systems, and cumulative impacts. These issues will be addressed in the forthcoming Draft EIR.

Signature:
Title: Associate Planner

From: Padilla, Lacy (TRBL) <lpadilla@aguacaliente.net>
Sent: Tuesday, March 26, 2019 9:17 AM
To: Atkins, James
Subject: Vineyard III Retail Development Project

Follow Up Flag: Follow up
Flag Status: Flagged

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Greetings,

A records check of the Tribal Historic preservation office's cultural registry revealed that this project is not located within the Tribe's Traditional Use Area. Therefore, we defer to the other tribes in the area. This letter shall conclude our consultation efforts.

Thank you,

Lacy Padilla
Archaeological Technician
Agua Caliente Band of Cahuilla Indians
5401 Dinah Shore Drive Palm Springs, CA 92264
D: 760-699-6956 | C: 760-333-5222

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From: Reinertson, Adria@CALFIRE <Adria.Reinertson@fire.ca.gov>
Sent: Thursday, March 28, 2019 2:43 PM
To: Atkins, James
Subject: RE: NOP for Vineyard III

James,

We do not have any comments on the NOP or initial study but may have comments regarding the public facilities portion when the EIR does further evaluation. Thank you.

Adria Reinertson
Deputy Fire Marshal/Office of the Fire Marshal
CAL FIRE/Riverside County Fire Department
Direct: 951-955-5272 | Main: 951-955-4777

From: Atkins, James <JAtkins@MurrietaCA.gov>
Sent: Thursday, March 28, 2019 1:42 PM
To: Reinertson, Adria@CALFIRE <Adria.Reinertson@fire.ca.gov>
Subject: RE: NOP for Vineyard III

Warning: this message is from an external user and should be treated with caution.

Ok – sent, let me know if all is good.

James Atkins | Associate Planner
Planning Division
951-461-6414 | www.murrietaca.gov

From: Reinertson, Adria@CALFIRE [mailto:Adria.Reinertson@fire.ca.gov]
Sent: Thursday, March 28, 2019 1:40 PM
To: Atkins, James
Subject: RE: NOP for Vineyard III

Yes, hopefully that will work. Thank you.

Adria Reinertson
Deputy Fire Marshal/Office of the Fire Marshal
CAL FIRE/Riverside County Fire Department
Direct: 951-955-5272 | Main: 951-955-4777

From: Atkins, James <JAtkins@MurrietaCA.gov>
Sent: Thursday, March 28, 2019 1:38 PM
To: Reinertson, Adria@CALFIRE <Adria.Reinertson@fire.ca.gov>
Subject: RE: NOP for Vineyard III

Warning: this message is from an external user and should be treated with caution.

Hi Adria,

May I dropbox it to you? The IS is about 16mb and our email server limits mail to 10mb or less.

James Atkins | Associate Planner
Planning Division
951-461-6414 | www.murrietaca.gov

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From: Reinertson, Adria@CALFIRE [mailto:Adria.Reinertson@fire.ca.gov]
Sent: Thursday, March 28, 2019 1:29 PM
To: Atkins, James
Subject: NOP for Vineyard III

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

James,

We are in receipt of the above NOP. Any chance you have the Initial Study in a digital file you can email. If not, no worries, I just need to hunt down a CD drive. Thanks

Adria Reinertson
Deputy Fire Marshal/Office of the Fire Marshal
CAL FIRE/Riverside County Fire Department
Direct: 951-955-5272 | Main: 951-955-4777
2300 Market St., Ste 150, Riverside, CA 92501
adria.reinertson@fire.ca.gov | www.rvcfire.org

■ Leadership ■ Competence ■ Integrity ■ Safety ■ Customer Service ■

The Office of the Fire Marshal is committed to provide professional fire and life safety engineering, permitting and inspection services for our citizens and emergency responders through exemplary customer service, leadership, education, analysis, innovation and partnership with the development and business community.

County of Riverside
DEPARTMENT OF ENVIRONMENTAL HEALTH
P.O. BOX 7909 ● RIVERSIDE, CA 92513-7909
STEVE VAN STOCKUM, DIRECTOR

Environmental Health Review Fees

(Planning Case Transmittals for Contracted Cities)

DESCRIPTION	FEE
Tier 1 - Water and Sewer verification review • Will Serve Letter • Onsite Wastewater Treatment Systems • Advance Treatment Units • Solis Percolation Report • Issuance of a SAN 53 and/or Comments Letter Average time 3 hours for review	$558.00
Tier 2 - Phase I Environmental Site Assessment (ESA) review or additional report reviews, • Review of items aforementioned in Tier 1 Average time 7 hours for review	$1302.00
Tier 3 - Phase I Environmental Site Assessment (ESA) review and additional report reviews, • Review of items aforementioned in Tier 1 Average time 10 hours for review	$1860.00

NOTES TO FEE SCHEDULE:

- The fees noted in the fee schedule are minimum fees to be paid at the time of application filing to cover the average Department cost of review. A signed agreement for payment of application processing fees between the Department and the applicant shall be required at the time of application filing. Should actual costs exceed the amount of the fee, the applicant will be billed for additional costs. Services are charged at a rate of $186/hour.
- An hourly rate of $186 shall be charged for other development-related fees which may be required, but are not necessarily limited to, well, and septic system fees.
- The Department reserves the right to charge actual cost (at a rate of $186/hour) on large, complex, unusual, and/or time consuming projects in order to ensure that the fee will cover the actual cost of service.
- An application shall be filled with the Planning Department of the Contracted city prior to submitting any items listed above to this Department for Review. Please provide a copy of the Planning Case transmittal to this Department.

Rev 07/2018

MENIFEE
New. Better. Best.

29714 Haun Road | Menifee, CA 92586
951-672-6777 | Fax 951-679-3843

cityofmenifee.us

April 22, 2019

City of Murrieta Planning Division
c/o James Atkins, Associate Planner
One Town Square
Murrieta, CA 92562
(Sent via US mail and E-mail)

RE: Notice of Preparation of an Environmental Impact Report for the Vineyard III Retail Development Project

Dear Mr. Atkins:

Thank you for providing an opportunity for the City of Menifee to review the Notice of Preparation (NOP) of an Environmental Impact Report (EIR) for the Vineyard III Retail Development Project. The City of Menifee offers the following comments concerning the NOP and EIR for the project:

1. Given the proximity of the proposed project to the City of Menifee's boundaries, the City would request that the EIR thoroughly address the project's potential impacts on Traffic, Air Quality/GHG, Land Use and Planning and Cumulative Impacts on a regional basis.

2. The City of Menifee's Community Development Department requests to receive subsequent notices on this project and any environmental documents prepared for the project.

3. The City of Menifee's staff requests to work with the City of Murrieta to identify all approved and pending projects within the City of Menifee that should be included in the cumulative analysis of the traffic study.

Sincerely,

Tamara Harrison
Senior Planner
Community Development Department

Bill Zimmerman, Mayor
Greg August, Mayor Pro Tem, District 1
Matt Liesemeyer, Councilmember, District 2
Lesa A. Sobek, Councilmember, District 3
Dean Deines, Councilmember, District 4
Armando G. Villa, City Manager

From: Kim, Kristine <KAKim@RIVCO.ORG>
Sent: Tuesday, April 9, 2019 8:41 AM
To: Atkins, James
Subject: NOP of EIR for Vineyard III Retail Development Project
Attachments: Contracted City Planning Review Fees July 2018.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

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Mr. Atkins,
Based on the information provided, the Department of Environmental Health (DEH) offers the following initial comments:

WATER AND WASTEWATER:
Provide an original copy of a water and sewer "will-serve" letters from the appropriate water and sewer purveyor. Please include a map of the nearest water and sewer lines.

ENVIRONMENTAL CLEANUPS PROGRAM
The applicant shall obtain written clearance from DEH Environmental Cleanup Programs. Please note that an Environmental Site Assessment, Phase 1study may be required at their discretion. For further information, please contact ECP at (951) 955-8980.

REVIEW FEES
Please refer to the attached "Environmental Health Review Fees" Tier chart for the appropriate fees.

Should you have any questions regarding this letter, please contact me at (951) 955-8980.

Sincerely,

Kristine Kim, REHS
County of Riverside, Department of Environmental Health
3880 North Lemon Street, Suite 200
Riverside, CA 92501

Kristine Kim
Supervising Environmental Health Specialist
Riverside County Department of Environmental Health
Environmental Cleanup Program
3880 Lemon Street Suite 200, Riverside CA 92501
Phone #: 951-955-8980
Fax #: 951-955-8988
E-mail: kakim@rivco.org
www.rivcoeh.org

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County of Riverside California

PECHANGA CULTURAL RESOURCES
Temecula Band of Luiseño Mission Indians

Post Office. Box 2183 • Temecula, CA 92593
Telephone (951) 770-6300 • Fax (951) 506-9491

Chairperson:
Neal Ibanez

Vice Chairperson:
Bridgett Barcello

Committee Members:
Andrew Masiel, Sr.
Darlene Miranda
Evie Gerber
Richard B. Scearce, III
Robert Villalobos

Director:
Gary DuBois

Coordinator:
Paul Macarro

Cultural Analyst:
Tuba Ebru Ozdil

Planning Specialist:
Molly E. Escobar

April 22, 2019

VIA E-MAIL and USPS

Mr. James Atkins
Associate Planner
City of Murrieta
Planning Division
1 Town Square,
Murrieta, CA 92562

Re: Pechanga Tribe Comments on the Notice of Preparation for the Draft Environmental Impact Report, Vineyard III Retail Development Project (DP-2018-1691)

Dear Mr. Atkins:

These comments are written on behalf of the Pechanga Band of Luiseño Indians (hereinafter, "the Tribe"), a federally recognized Indian tribe and sovereign government. The Tribe formally requests, pursuant to Public Resources Code §21092.2, to be notified and involved in the entire CEQA environmental review process for the duration of the above referenced project (the "Project"). In addition, as City knows, AB 52 applies to projects that have a notice of preparation for an environmental impact report, negative declaration or mitigated negative declaration filed on or after July 1, 2015. At this time, we have no record of receiving AB52 notice for this project; therefore, this letter will also serve as the Tribe's formal request to begin consultation under AB 52 for this Project. If you have not done so already, please add the Tribe to your distribution list(s) for public notices and circulation of all documents, including environmental review documents, archeological reports, and all documents pertaining to this Project. The Tribe further requests to be directly notified of all public hearings and scheduled approvals concerning this Project. Please also incorporate these comments into the record of approval for this Project.

The Tribe submits these comments concerning the Project's potential impacts to cultural resources in conjunction with the environmental review of the Project and to assist the City in developing appropriate avoidance and preservation standards for potential tribal cultural resources that the Project may impact. The Pechanga Tribe asserts that the Project area is in an area associated with the *Payómkawichum* (Luiseño) Ancestral Origin Landscape as evidenced by the existence of *Payómkawichum* place names, a Traditional Cultural Property (TCP), several large village complexes, *tóota yixélval* (rock art, pictographs, petroglyphs), and an extensive artifact

record in the vicinity of the Project. This culturally sensitive area is affiliated with the Pechanga Band of Luiseño Indians because of the Tribe's cultural ties to this area.

Given the sensitivity of the area, inadvertent discoveries are foreseeable impacts and should be appropriately mitigated for within the confines of the Project. The identification of surface resources during an archaeological survey should not be the sole determining factor in deciding whether mitigation measures for inadvertent discoveries are required. The cultural significance of the area should play a large part in determining whether specifications concerning unanticipated discoveries should be included. Additionally, the Tribe believes that the potential for inadvertent discoveries increases because of the known resources in the area, the presence of a TCP to the north of the proposed project. The CEQA Guidelines state that lead agencies should make provisions for inadvertent discoveries of cultural resources (CEQA Guidelines §15064.5). As such, it is the position of the Pechanga Tribe that an agreement specifying appropriate treatment of inadvertent discoveries of cultural resources be executed between the Project Applicant/Developer and the Pechanga Tribe.

The Tribe requests to be involved and participate with the City in assuring that an adequate environmental assessment is completed, and in developing all monitoring and mitigation plans and measures for the duration of the Project. In addition, given the sensitivity of the Project area, it is the position of the Pechanga Tribe that professional Pechanga tribal monitors be required to be present during all ground-disturbing activities conducted in connection with the Project.

The Tribe believes that adequate cultural resources assessments and management must always include a component which addresses inadvertent discoveries. Every major State and Federal law dealing with cultural resources includes provisions addressing inadvertent discoveries (See e.g.: CEQA (Cal. Pub. Resources Code §21083.2(i); 14 CCR §1506.5(f)); Section 106 (36 CFR §800.13); NAGPRA (43 CFR §10.4). Moreover, most state and federal agencies have guidelines or provisions for addressing inadvertent discoveries (See e.g.: FHWA, Section 4(f) Regulations - 771.135(g); CALTRANS, Standard Environmental Reference - 5- 10.2 and 5-10.3). Because of the extensive presence of the Tribe's ancestors within the Project area, it is not unreasonable to expect to find vestiges of that presence. Such cultural resources and artifacts are significant to the Tribe as they are reminders of their ancestors. Moreover, the Tribe is expected to protect and assure that all cultural sites of its ancestors are appropriately treated in a respectful manner. Therefore, as noted previously, it is crucial to adequately address the potential for inadvertent discoveries.

Further, the Pechanga Tribe believes that if human remains are discovered, State law would apply and the mitigation measures for the permit must account for this. According to the California Public Resources Code, § 5097.98, if Native American human remains are discovered, the Native American Heritage Commission must name a "most likely descendant," who shall be consulted as to the appropriate disposition of the remains. Given the Project's location in Pechanga territory, the Pechanga Tribe intends to assert its right pursuant to California law with regard to any remains or items discovered in the course of this Project.

The Tribe reserves the right to fully participate in the environmental review process, as well as to provide further comment and consult on the Project's impacts to cultural resources and potential mitigation for such impacts.

The Pechanga Tribe looks forward to working together with the City of Murrieta in protecting the invaluable Pechanga cultural resources found in the Project area. Please contact me at 951-770-6313 or at eozdil@pechanga-nsn.gov so we can begin consultation on the proposed Project. Thank you.

Sincerely,



Tuba Ebru Ozdil
Cultural Analyst

Cc Pechanga Office of the General Counsel

From: Reinertson, Adria@CALFIRE <Adria.Reinertson@fire.ca.gov>
Sent: Thursday, March 28, 2019 1:46 PM
To: Atkins, James
Subject: RE: NOP for Vineyard III

Perfect. Thanks so much.

Adria Reinertson
Deputy Fire Marshal/Office of the Fire Marshal
CAL FIRE/Riverside County Fire Department
Direct: 951-955-5272 | Main: 951-955-4777

From: Atkins, James <JAtkins@MurrietaCA.gov>
Sent: Thursday, March 28, 2019 1:42 PM
To: Reinertson, Adria@CALFIRE <Adria.Reinertson@fire.ca.gov>
Subject: RE: NOP for Vineyard III

Warning: this message is from an external user and should be treated with caution.

Ok – sent, let me know if all is good.

James Atkins | Associate Planner
Planning Division
951-461-6414 | www.murrietaca.gov

From: Reinertson, Adria@CALFIRE [mailto:Adria.Reinertson@fire.ca.gov]
Sent: Thursday, March 28, 2019 1:40 PM
To: Atkins, James
Subject: RE: NOP for Vineyard III

Yes, hopefully that will work. Thank you.

Adria Reinertson
Deputy Fire Marshal/Office of the Fire Marshal
CAL FIRE/Riverside County Fire Department
Direct: 951-955-5272 | Main: 951-955-4777

From: Atkins, James <JAtkins@MurrietaCA.gov>
Sent: Thursday, March 28, 2019 1:38 PM
To: Reinertson, Adria@CALFIRE <Adria.Reinertson@fire.ca.gov>
Subject: RE: NOP for Vineyard III

Warning: this message is from an external user and should be treated with caution.

Hi Adria,

May I dropbox it to you? The IS is about 16mb and our email server limits mail to 10mb or less.

James Atkins | Associate Planner
Planning Division
951-461-6414 | www.murrietaca.gov

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From: Reinertson, Adria@CALFIRE [mailto:Adria.Reinertson@fire.ca.gov]
Sent: Thursday, March 28, 2019 1:29 PM
To: Atkins, James
Subject: NOP for Vineyard III

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James,

We are in receipt of the above NOP. Any chance you have the Initial Study in a digital file you can email. If not, no worries, I just need to hunt down a CD drive. Thanks

Adria Reinertson
Deputy Fire Marshal/Office of the Fire Marshal
CAL FIRE/Riverside County Fire Department
Direct: 951-955-5272 | Main: 951-955-4777
2300 Market St., Ste 150, Riverside, CA 92501
adria.reinertson@fire.ca.gov | www.rvcfire.org

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From: Lijin Sun
To: Atkins, James
Subject: SCAQMD Staff NOP Comments for the Vineyard III Retail Development Project
Date: Tuesday, April 16, 2019 9:29:20 AM

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Dear Mr. Atkins,

Attached are SCAQMD staff's comments on the Notice of Preparation of a Draft Environmental Impact Report for the Vineyard III Retail Development Project (SCAQMD Control Number: RVC190322-06). The original, electronically signed letter will be forwarded to your attention by regular USPS mail. Please contact me if you have any questions regarding these comments.

Thank you,
Lijin Sun, J.D.
Program Supervisor, CEQA IGR
South Coast Air Quality Management District
21865 Copley Drive, Diamond Bar, CA 91765
Direct: (909) 396-3308
Fax: (909) 396-3324
Please note that the SCAQMD is closed on Mondays.

South Coast
Air Quality Management District
21865 Copley Drive, Diamond Bar, CA 91765-4178
(909) 396-2000 • www.aqmd.gov

SENT VIA USPS AND E-MAIL:
JAtkins@MurrietaCA.gov
James Atkins, Associate Planner
City of Murrieta, Planning Division
One Town Square
Murrieta, CA 92562

April 16, 2019

Notice of Preparation of a Draft Environmental Impact Report for the Proposed Vineyard III Retail Development Project

South Coast Air Quality Management District (South Coast AQMD) staff appreciates the opportunity to comment on the above-mentioned document. South Coast AQMD staff's comments are recommendations regarding the analysis of potential air quality impacts from the Proposed Project that should be included in the Draft Environmental Impact Report (EIR). Please send South Coast AQMD a copy of the Draft EIR upon its completion. Note that copies of the Draft EIR that are submitted to the State Clearinghouse are not forwarded to South Coast AQMD. Please forward a copy of the Draft EIR directly to South Coast AQMD at the address shown in the letterhead. **In addition, please send with the Draft EIR all appendices or technical documents related to the air quality, health risk, and greenhouse gas analyses and electronic versions of all air quality modeling and health risk assessment files[1]. These include emission calculation spreadsheets and modeling input and output files (not PDF files). Without all files and supporting documentation, South Coast AQMD staff will be unable to complete our review of the air quality analyses in a timely manner. Any delays in providing all supporting documentation will require additional time for review beyond the end of the comment period.**

Air Quality Analysis

South Coast AQMD adopted its California Environmental Quality Act (CEQA) Air Quality Handbook in 1993 to assist other public agencies with the preparation of air quality analyses. South Coast AQMD recommends that the Lead Agency use this Handbook as guidance when preparing its air quality analysis. Copies of the Handbook are available from South Coast AQMD's Subscription Services Department by calling (909) 396-3720. More guidance developed since this Handbook is also available on SOUTH COAST AQMD's website at: http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/ceqa-air-quality-handbook-(1993). South Coast AQMD staff also recommends that the Lead Agency use the CalEEMod land use emissions software. This software has recently been updated to incorporate up-to-date state and locally approved emission factors and methodologies for estimating pollutant emissions from typical land use development. CalEEMod is the only software model maintained by the California Air Pollution Control Officers Association (CAPCOA) and replaces the now outdated URBEMIS. This model is available free of charge at: www.caleemod.com.

South Coast AQMD has also developed both regional and localized significance thresholds. South Coast AQMD staff requests that the Lead Agency quantify criteria pollutant emissions and compare the results

[1] Pursuant to the CEQA Guidelines Section 15174, the information contained in an EIR shall include summarized technical data, maps, plot plans, diagrams, and similar relevant information sufficient to permit full assessment of significant environmental impacts by reviewing agencies and members of the public. Placement of highly technical and specialized analysis and data in the body of an EIR should be avoided through inclusion of supporting information and analyses as appendices to the main body of the EIR. Appendices to the EIR may be prepared in volumes separate from the basic EIR document, but shall be readily available for public examination and shall be submitted to all clearinghouses which assist in public review.

to South Coast AQMD's CEQA regional pollutant emissions significance thresholds to determine air quality impacts. South Coast AQMD's CEQA regional pollutant emissions significance thresholds can be found here: http://www.aqmd.gov/docs/default-source/ceqa/handbook/South_Coast_AQMD-air-quality-significance-thresholds.pdf. In addition to analyzing regional air quality impacts, South Coast AQMD staff recommends calculating localized air quality impacts and comparing the results to localized significance thresholds (LSTs). LSTs can be used in addition to the recommended regional significance thresholds as a second indication of air quality impacts when preparing a CEQA document. Therefore, when preparing the air quality analysis for the Proposed Project, it is recommended that the Lead Agency perform a localized analysis by either using the LSTs developed by South Coast AQMD staff or performing dispersion modeling as necessary. Guidance for performing a localized air quality analysis can be found at: http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/localized-significance-thresholds.

The Lead Agency should identify any potential adverse air quality impacts that could occur from all phases of the Proposed Project and all air pollutant sources related to the Proposed Project. Air quality impacts from both construction (including demolition, if any) and operations should be calculated. Construction-related air quality impacts typically include, but are not limited to, emissions from the use of heavy-duty equipment from grading, earth-loading/unloading, paving, architectural coatings, off-road mobile sources (e.g., heavy-duty construction equipment) and on-road mobile sources (e.g., construction worker vehicle trips, material transport trips). Operation-related air quality impacts may include, but are not limited to, emissions from stationary sources (e.g., boilers), area sources (e.g., solvents and coatings), and vehicular trips (e.g., on- and off-road tailpipe emissions and entrained dust). Air quality impacts from indirect sources, such as sources that generate or attract vehicular trips, should be included in the analysis.

In the event that the Proposed Project generates or attracts vehicular trips, especially heavy-duty diesel-fueled vehicles, it is recommended that the Lead Agency perform a mobile source health risk assessment. Guidance for performing a mobile source health risk assessment ("*Health Risk Assessment Guidance for Analyzing Cancer Risk from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis*") can be found at: http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/mobile-source-toxics-analysis. An analysis of all toxic air contaminant impacts due to the use of equipment potentially generating such air pollutants should also be included.

In addition, guidance on siting incompatible land uses (such as placing homes near freeways) can be found in the California Air Resources Board's *Air Quality and Land Use Handbook: A Community Health Perspective*, which can be found at: http://www.arb.ca.gov/ch/handbook.pdf. CARB's Land Use Handbook is a general reference guide for evaluating and reducing air pollution impacts associated with new projects that go through the land use decision-making process. Guidance[2] on strategies to reduce air pollution exposure near high-volume roadways can be found at: https://www.arb.ca.gov/ch/rd_technical_advisory_final.PDF.

Mitigation Measures

In the event that the Proposed Project generates significant adverse air quality impacts, CEQA requires that all feasible mitigation measures that go beyond what is required by law be utilized during project construction and operation to minimize these impacts. Pursuant to CEQA Guidelines Section 15126.4 (a)(1)(D), any impacts resulting from mitigation measures must also be discussed. Several resources are

[2] In April 2017, CARB published a technical advisory, *Strategies to Reduce Air Pollution Exposure Near High-Volume Roadways: Technical Advisory*, to supplement CARB's Air Quality and Land Use Handbook: A Community Health Perspective. This technical advisory is intended to provide information on strategies to reduce exposures to traffic emissions near high-volume roadways to assist land use planning and decision-making in order to protect public health and promote equity and environmental justice. The technical advisory is available at: https://www.arb.ca.gov/ch/landuse.htm.

available to assist the Lead Agency with identifying potential mitigation measures for the Proposed Project, including:

- Chapter 11 "Mitigating the Impact of a Project" of South Coast AQMD'S *CEQA Air Quality Handbook.* South Coast AQMD's CEQA web pages available here: http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/mitigation-measures-and-control-efficiencies
- South Coast AQMD's Rule 403 – Fugitive Dust, and the Implementation Handbook for controlling construction-related emissions and Rule 1403 – Asbestos Emissions from Demolition/Renovation Activities
- South Coast AQMD's Mitigation Monitoring and Reporting Plan (MMRP) for the 2016 Air Quality Management Plan (2016 AQMP) available here (starting on page 86): http://www.aqmd.gov/docs/default-source/Agendas/Governing-Board/2017/2017-mar3-035.pdf
- CAPCOA's *Quantifying Greenhouse Gas Mitigation Measures* available here: http://www.capcoa.org/wp-content/uploads/2010/11/CAPCOA-Quantification-Report-9-14-Final.pdf

Alternatives

In the event that the Proposed Project generates significant adverse air quality impacts, CEQA requires the consideration and discussion of alternatives to the project or its location which are capable of avoiding or substantially lessening any of the significant effects of the project. The discussion of a reasonable range of potentially feasible alternatives, including a "no project" alternative, is intended to foster informed decision-making and public participation. Pursuant to CEQA Guidelines Section 15126.6(d), the Draft EIR shall include sufficient information about each alternative to allow meaningful evaluation, analysis, and comparison with the Proposed Project.

Permits and South Coast AQMD Rules

If the Proposed Project requires a permit from South Coast AQMD, South Coast AQMD should be identified as a Responsible Agency for the Proposed Project in the Draft EIR. The assumptions in the air quality analysis in the Draft EIR will be the basis for permit conditions and limits. For more information on permits, please visit South Coast AQMD's webpage at: http://www.aqmd.gov/home/permits. Questions on permits can be directed to South Coast AQMD's Engineering and Permitting staff at (909) 396-3385.

Data Sources

South Coast AQMD rules and relevant air quality reports and data are available by calling South Coast AQMD's Public Information Center at (909) 396-2039. Much of the information available through the Public Information Center is also available at South Coast AQMD's webpage at: http://www.aqmd.gov.

South Coast AQMD staff is available to work with the Lead Agency to ensure that project air quality and health risk impacts are accurately evaluated and mitigated where feasible. If you have any questions regarding this letter, please contact me at lsun@aqmd.gov or (909) 396-3308.

Sincerely,

Lijin Sun

Lijin Sun, J.D.
Program Supervisor, CEQA IGR
Planning, Rule Development & Area Sources

LS
RVC190322-06
Control Number

From: Rull, Paul
To: Atkins, James
Subject: Vineyard III EIR transmittal ALUC comments
Date: Tuesday, March 26, 2019 2:26:42 PM
Attachments: image001.jpg

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Hi James,

Thank you for transmitting the above reference project to ALUC for review. Please note that the project is located outside of an airport influence area, and therefore ALUC has no comments at this time.

If you have any questions, please feel free to contact me.

Paul Rull
ALUC Principal Planner

Picture1



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County of Riverside California

From: Destiny Colocho <DColocho@rincon-nsn.gov>
Sent: Tuesday, April 16, 2019 7:23 AM
To: Atkins, James
Cc: Deneen Pelton
Subject: Vineyard III Project - Murrieta

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Dear Mr. Atkins,

This letter is written on behalf of the Rincon Band of Luiseño Indians. We have received your Notice of Preparation of A Draft Environmental Impact Report dated March 20, 2019 and we thank you for the opportunity to provide comments. The identified location is within the Territory of the Luiseño people, and is also within Rincon's specific area of Historic interest.

Embedded in the Luiseño territory are Rincon's history, culture and identity. As stated in our consultation request letter dated December 19, 2018, we have knowledge of one Luiseño Place Name less than a half a mile from the proposed project site. Therefore, we recommend archaeological and Luiseno tribal monitoring be conducted during ground disturbances, as deemed necessary by the qualified archaeologist in consultation with the Luiseno tribal monitor.

If you have additional questions or concerns please do not hesitate to contact our office at your convenience at (760) 297-2635.

Thank you for the opportunity to protect and preserve our cultural assets.

Sincerely,

Destiny Colocho, RPA
Cultural Resource Manager and Tribal Historic Preservation Officer
Cultural Resource Department
Rincon Band of Luiseño Indians
1 West Tribal Road | Valley Center, CA 92082
Office:760-297-2635 | Cell: 760-705-7171
Fax: 760-692-1498
Email: dcolocho@rincon-nsn.gov

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From: Mauricio Alvarez
To: Atkins, James
Subject: Vineyard III Retail Development Project
Date: Wednesday, March 27, 2019 1:39:14 PM

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Good Morning Mr. Atkins,

RTA has reviewed the plans that you have sent and we have one comment:

1. A bus turn out on Clinton Keith Rd NS Creighton Ave (going westbound) with ADA compliant, connected sidewalk.

Also, I will be the point of contact for development reviews for RTA. Any emails or mailings, please send them to me.

Thank you for considering this comment.

Mauricio Alvarez, MBA
Planning Analyst
Riverside Transit Agency
p: 951.565.5260 | e: malvarez@riversidetransit.com
Website | Facebook | Twitter | Instagram
1825 Third Street, Riverside, CA 92507

Appendix B

Air Quality and Greenhouse Gas Report

Air Quality and Greenhouse Gas Emissions Analysis Technical Report for the Vineyard III Retail Development Project City of Murrieta, California

Prepared for:

Retail Development Advisors
27890 Clinton Keith Road D-490
Murrieta, California 92562
Contact: Allan L. Davis, President

Prepared by:

DUDEK
3544 University Avenue
Riverside, California 92501
Contact: Samantha Wang

APRIL 2020

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Acronyms and Abbreviations

Acronym/Abbreviation	Definition
AB	Assembly Bill
AERMOD	American Meteorological Society/Environmental Protection Agency Regulatory Model
amsl	above mean sea level
AQMP	Air Quality Management Plan
CAAQS	California Ambient Air Quality Standards
CalEEMod	California Emissions Estimator Model
CALGreen	California's Green Building Standards
CALINE4	California LINE Source Dispersion Model
CalRecycle	California Department of Resources Recycling and Recovery
Caltrans	California Department of Transportation
CAP	climate action plan
CARB	California Air Resources Board
CEC	California Energy Commission
CEQA	California Environmental Quality Act
CFC	chlorofluorocarbon
CH_4	methane
City	City of Murrieta
CNRA	California Natural Resources Agency
CO	carbon monoxide
CO_2	carbon dioxide
CO_2e	carbon dioxide equivalent
CPUC	California Public Utilities Commission
DPM	diesel particulate matter
EIR	Environmental Impact Report
EO	Executive Order
EPA	U.S. Environmental Protection Agency
GHG	greenhouse gas
GWP	global warming potential
HAP	hazardous air pollutant
HARP2	Hotspots Analysis and Reporting Program Version 2
HCFC	hydrochlorofluorocarbon
HFC	hydrofluorocarbon
hp	horsepower
HRA	health risk assessment
IPCC	Intergovernmental Panel on Climate Change
LCFS	Low Carbon Fuel Standard
LOS	level of service
LST	localized significance threshold
MM	Mitigation Measure
MMT	million metric ton
MT	metric ton
N_2O	nitrous oxide
NAAQS	National Ambient Air Quality Standards
NHTSA	National Highway Traffic Safety Administration

Acronym/Abbreviation	Definition
NO_2	nitrogen dioxide
NO_x	oxides of nitrogen
O_3	ozone
PDF	project design feature
PFC	perfluorocarbon
PM_{10}	particulate matter with an aerodynamic diameter less than or equal to 10 microns
$PM_{2.5}$	particulate matter with an aerodynamic diameter less than or equal to 2.5 microns
ppm	parts per million
RCP	Regional Comprehensive Plan
RPS	Renewables Portfolio Standard
RTP	Regional Transportation Plan
SB	Senate Bill
SCAB	South Coast Air Basin
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
SCE	Southern California Edison
SCS	Sustainable Communities Strategy
SF_6	sulfur hexafluoride
SO_2	sulfur dioxide
SO_x	sulfur oxides
SRA	source-receptor area
TAC	toxic air contaminants
TIA	Transportation Impact Analysis
VMT	vehicle miles traveled
VOC	volatile organic compound

Executive Summary

The purpose of this technical report is to assess the potential air quality and greenhouse gas (GHG) emissions impacts associated with implementation of the proposed Vineyard III Retail Development Project (project). This assessment utilizes the significance thresholds in Appendix G of the California Environmental Quality Act (CEQA) Guidelines (14 CCR 15000 et seq.).

Project Overview

The project site is located in the northern portion of the City of Murrieta (City) in Riverside County, California, at the northwest corner of Interstate 215 and Clinton Keith Road.

The project proposes construction of a new retail development consisting of a bank, shopping center, fast food restaurants, retail, automobile care center, automobile tire store, and associated parking on a 6.65-acre undeveloped infill site.

The project site is located within the South Coast Air Basin and is under the jurisdiction of the South Coast Air Quality Management District (SCAQMD). Construction and operational criteria air pollutant and GHG emissions were estimated using the California Emissions Estimator Model Version 2016.3.2, consistent with SCAQMD guidance.

Air Quality

The air quality impact analysis evaluated the potential for adverse impacts to air quality due to construction and operational emissions resulting from the project. Impacts were evaluated for their significance based on the SCAQMD mass daily criteria air pollutant thresholds of significance (SCAQMD 1993, 2019). Criteria air pollutants are defined as pollutants for which the federal and state governments have established ambient air quality standards, or criteria, for outdoor concentrations, to protect public health. Criteria air pollutants include ozone (O_3), nitrogen dioxide, carbon monoxide (CO), sulfur dioxide, particulate matter with an aerodynamic diameter less than or equal to 10 microns (PM_{10}), particulate matter with an aerodynamic diameter less than or equal to 2.5 microns ($PM_{2.5}$), and lead. Pollutants that are evaluated include volatile organic compounds (VOCs) (also referred to as reactive organic gases), oxides of nitrogen (NO_x), CO, sulfur oxides (SO_x), PM_{10}, and $PM_{2.5}$. VOCs and NO_x are important because they are precursors to O_3.

Air Quality Plan Consistency

Implementation of the project would not exceed the demographic growth forecasts in the Southern California Association of Governments (SCAG) 2016 Regional Transportation Plan (RTP)/Sustainable Communities Strategy (SCS); therefore, the project would also be consistent with the SCAQMD 2016 Air Quality Management Plan, which based future emission estimates on the SCAG 2016 RTP/SCS. However, the project would result in an increase in the frequency or severity of existing air quality violations or cause or contribute to new violations. Based on these considerations, impacts related to the project's potential to conflict with or obstruct implementation of the applicable air quality plan would be less than significant after implementation of **Mitigation Measure (MM) AQ-1**.

Cumulative Impacts

The potential for the project to result in a cumulatively considerable impact, per the SCAQMD guidance and thresholds, is based on the project's potential to exceed the project-specific daily thresholds. Construction of the

project would result in the temporary addition of pollutants to the local airshed caused by on-site sources (i.e., off-road construction equipment, rock crushing, rock popping, soil disturbance, and VOC off-gassing) and off-site sources (i.e., on-road haul trucks, vendor trucks, and worker vehicle trips). Estimated maximum daily construction emissions would not exceed the SCAQMD significance thresholds for VOC, CO, SO_x, PM_{10}, or $PM_{2.5}$ during construction (year 2021). However, the daily construction emissions would exceed the SCAQMD significance thresholds for NO_x. Construction-generated emissions would be temporary and would not represent a long-term source of criteria air pollutant emissions; furthermore, after implementation of **MM-AQ-1**, impacts would be less than significant.

Operational year 2021 was assumed upon completion of project construction. Operation of the project would generate operational criteria air pollutants from mobile sources (vehicles), area sources (consumer product use, architectural coatings, landscape maintenance equipment, and gasoline dispensing facility), and energy (natural gas). Estimated maximum daily operational emissions would not exceed the SCAQMD operational significance thresholds for VOC, NO_x, CO, SO_x, PM_{10}, or $PM_{2.5}$; therefore, impacts would be less than significant.

Exposure of Sensitive Receptors

Construction activities would not generate emissions in excess of the SCAQMD site-specific localized significance thresholds for nitrogen dioxide, CO, PM_{10}, and $PM_{2.5}$; therefore, site-specific construction impacts during construction of the project would be less than significant.

Valley fever is not highly endemic to the project site or Riverside County; furthermore, the project would comply with SCAQMD Rule 403 (Fugitive Dust) and Project Design Feature AQ-1. Thus, the project would have a less-than-significant impact with respect to valley fever exposure for sensitive receptors.

Operation of the project would not expose sensitive receptors to localized high concentrations of CO or contribute traffic volumes to intersections that would cause a CO hotspot. As neither the 1-hour nor the 8-hour CO California Ambient Air Quality Standards would be equaled or exceeded at any of the studied intersections, potential CO hotspot impacts would be less than significant.

Impacts related to cancer risk and chronic hazard from diesel particulate matter, which is a toxic air contaminant, would not exceed the SCAQMD's health risk thresholds during construction activities; therefore, construction health risk impacts to proximate sensitive receptors would be less than significant. After construction is completed, there would be no long-term source of toxic air contaminant emissions during operation; therefore, operation health risk impacts would be less than significant.

Other Emissions

Potential odors produced during construction would be attributable to concentrations of unburned hydrocarbons from tailpipes of construction equipment, architectural coatings, and asphalt pavement application, which would disperse rapidly from the project site and generally occur at magnitudes that would not affect substantial numbers of people. Impacts associated with other emissions (such as those leading to odors) during construction would be less than significant. The project entails construction of retail buildings and associated parking and would not result in the creation of a land use that is commonly associated with odors. Therefore, project operations would result in a less-than-significant impact associated with other emissions (such as those leading to odors).

Greenhouse Gas Emissions

Global climate change is primarily considered a cumulative impact, but must also be evaluated on a project level under CEQA. A project participates in this potential impact through its incremental contribution combined with the cumulative increase of all other sources of GHG emissions. GHGs are gases that absorb infrared radiation in the atmosphere. Principal GHGs regulated under state and federal law and regulations include carbon dioxide, methane, and nitrous oxide. GHG emissions are measured in metric tons of carbon dioxide equivalent (MT CO_2e), which account for weighted global warming potential factors for methane and nitrous oxide.

Project-Generated Construction and Operational Greenhouse Gas Emissions

Construction of the project would result in GHG emissions primarily associated with use of off-road construction equipment, rock crushing, rock popping, on-road hauling and vendor (material delivery) trucks, and worker vehicles. Total project-generated GHG emissions during construction were estimated to be 519 MT CO_2e over the construction period. Estimated project-generated construction emissions amortized over 30 years would be approximately 17 MT CO_2e per year.

The project would generate operational GHG emissions from area sources (landscape maintenance), energy sources (natural gas and electricity), mobile sources, solid waste, and water supply and wastewater treatment. Estimated annual project-generated operational GHG emissions would be approximately 5,742 MT CO_2e. Estimated annual project-generated operational emissions in 2021 plus the amortized project construction emissions would be approximately 5,759 MT CO_2e.

As demonstrated below, the project is consistent with the Scoping Plan, 2016 RTP/SCS, City's General Plan, and the City's Climate Action Plan, which all promote economic growth while achieving greater energy efficiency. Therefore, the project's contributions to global climate change would not be cumulatively considerable, and cumulative impacts associated with GHG emissions would be less than significant.

Consistency with Applicable Greenhouse Gas Reduction Plans

The project is consistent with the California Air Resources Board's Climate Change Scoping Plan, the SCAG's 2016 RTP/SCS, the City's General Plan, and the City's Climate Action Plan, which all promote economic growth while achieving greater energy efficiency. The project would be consistent with Senate Bill 32 and Executive Order S-3-05. The project would not conflict with any plans adopted with the purpose of reducing GHG emissions; therefore, the proposed project's impacts on GHG emissions would be less than significant.

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1 Introduction

1.1 Report Purpose and Scope

The purpose of this technical report is to assess the potential air quality and greenhouse gas (GHG) emissions impacts associated with implementation of the proposed Vineyard III Retail Development Project (project). This assessment uses the significance thresholds in Appendix G of the California Environmental Quality Act (CEQA) Guidelines (14 CCR 15000 et seq.), and is based on the emissions-based significance thresholds recommended by the South Coast Air Quality Management District (SCAQMD) and other applicable thresholds of significance.

This introductory section provides a description of the project and the project location. Chapter 2, Air Quality, describes the air quality–related environmental setting, regulatory setting, existing air quality conditions, and thresholds of significance and analysis methodology, and presents an air quality impact analysis per Appendix G of the CEQA Guidelines. Chapter 3, Greenhouse Gas Emissions, follows the same format as Chapter 2 and similarly describes the GHG emissions–related environmental setting, regulatory setting, existing climate change conditions, and thresholds of significance and analysis methodology, and presents a GHG emissions impact analysis per Appendix G of the CEQA Guidelines. Chapter 4, References Cited, includes a list of the references cited. Chapter 5, List of Preparers, includes a list of those who prepared this technical report.

1.2 Regional and Local Setting

The project site is a westward-sloping 6.65-acre vacant lot at the northeast corner of Interstate 215 and Clinton Keith Road. The General Plan Land Use Map of the City of Murrieta (City) designates the project site as Commercial I (City of Murrieta 2011a). The City's Zoning Map shows the site as being zoned Regional Commercial (RC) (City of Murrieta 2014). Elevations on the project site range from approximately 1,530 to 1,560 feet above mean sea level (amsl). The surrounding area includes a site to the east that has been subject to an ongoing mass grading operation for several years to provide fill material/rock for construction purposes, and is currently proposed for development of a commercial/retail center, including a Costco. Interstate 215 is to the west and north; there is also vacant land to the north. To the south and across Clinton Keith Road is a residential subdivision and a school, south of which lies open space associated with the Hogback Hills. The project location is shown in Figure 1.

The project site is located within the South Coast Air Basin (SCAB), which includes all of Orange County and the non-desert portions of Los Angeles, Riverside, and San Bernardino Counties.

1.3 Project Description

The project would involve the construction of a new retail development center, as shown in Figure 2, Proposed Site Plan. The proposed development would consist of construction of an approximately 3,470-square-foot bank with a drive-through; 10,000-square-foot building that would house three tenants: 4,500-square-foot retail store, 3,000-square-foot fast food restaurant with drive-through, and 2,500-square-foot fast food restaurant with drive-through; 2,500-square-foot fast food restaurant with drive-through; 5,000-square-foot automobile tire store; 4,000-square-foot automobile care center; 7,370-square-foot retail store; and associated parking spaces. The project site is a 6.65-acre undeveloped infill site.

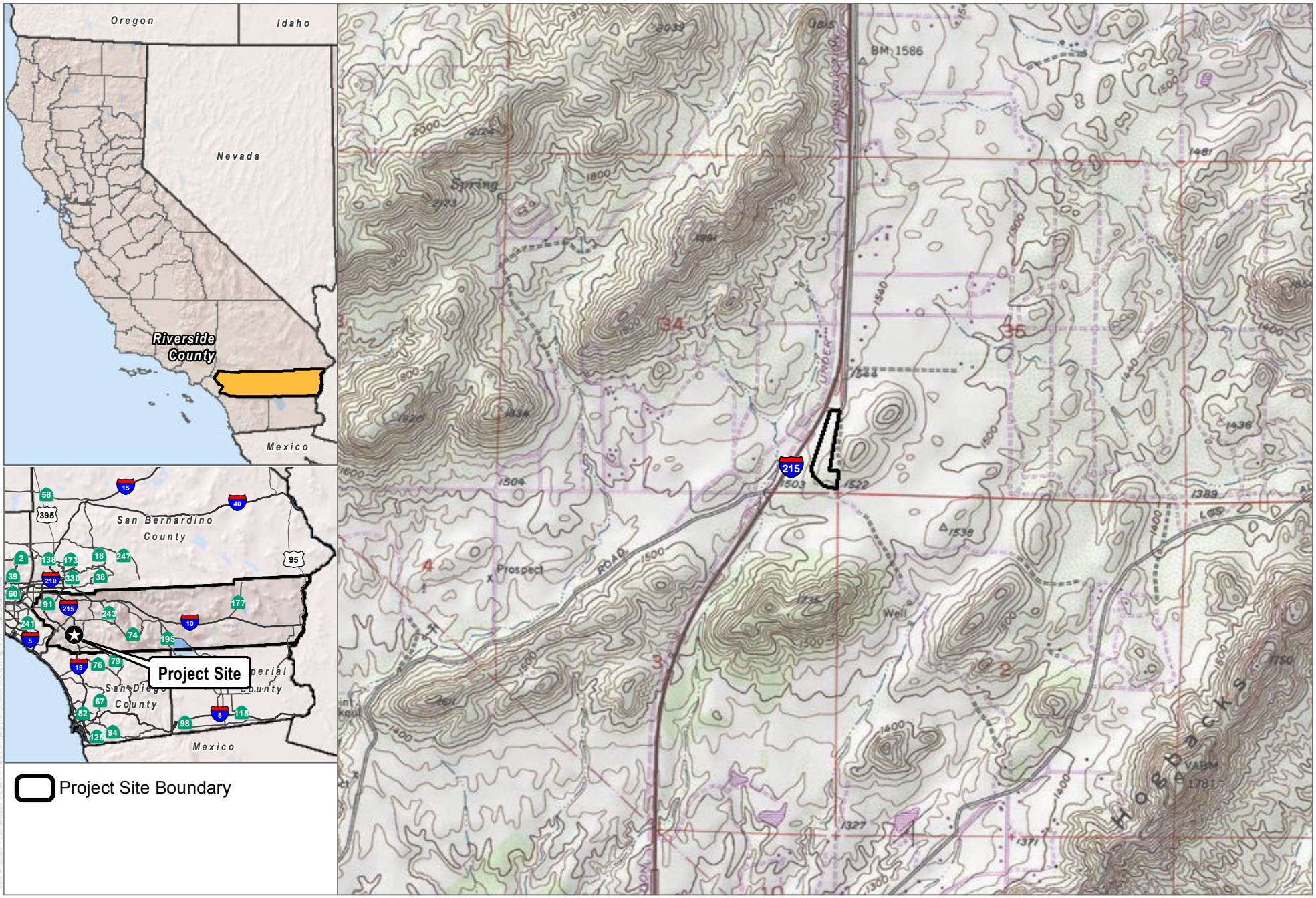
1.4 Project Design Features

To reduce construction and operational emissions to the extent feasible, the project would incorporate the following project design feature (PDF) into the new facility (**PDF-AQ/GHG-1**):

a. Operational landscaping maintenance equipment shall be electric operated with plugs on exteriors of each building to allow for recharging.
b. Each tenant shall be provided a recycling bin slot in their trash enclosure areas for recycling.
c. Solar shall be installed on building rooftops totaling 2,100 square feet, which would generate a system output of 52,444 kilowatt-hours per year (PV Watts 2019).
d. The remaining rooftops shall be designed to accommodate the additional structural load of the solar panels to allow for the flexibility for possible future installation.
e. A total of ten electric vehicle–charging stations shall be installed in the parking lot: eight electric vehicle–charging stations and two Americans with Disabilities Act–compliant electric vehicle–charging stations, with four connected to a solar-powered source.
f. Six parking spaces shall be marked for electric-vehicle/clean-air/van-pool parking only and two Americans with Disabilities Act–compliant parking spaces shall be marked for electric-vehicle/clean-air/van-pool parking only.
g. Electric plug-ins shall be available at loading docks for delivery trucks.
h. The project shall install drought-tolerant vegetation and water-efficient irrigation systems.
i. Non-potable irrigation lines shall be installed in preparation for future recycled water.

The project would include various construction dust control strategies as a PDF. Compliance with these dust control measures would be identified on grading plan approvals. The following dust control strategies are proposed (**PDF-AQ-1**):

a. During clearing, grading, earthmoving, excavation, or transportation of cut or fill materials, water trucks or sprinkler systems shall be used to prevent dust from leaving the site and to create a crust after each day's activities cease.
b. During construction, water trucks or sprinkler systems shall be used to keep all areas of vehicle movement damp enough to prevent dust from leaving the site. At a minimum, this would include wetting down such areas later in the morning, after work is completed for the day, and whenever winds exceed 15 miles per hour during active operations. Watering of active disturbance areas, including active grading areas and unpaved roads, would occur approximately every 2 hours of active operations, approximately three times per work day (at a minimum).
c. As a surrogate for watering unpaved road three times per day, the "soil stabilizer for unpaved" option was used assuming a 61% reduction in PM_{10} and $PM_{2.5}$
d. Speeds on unpaved roads shall be reduced to less than 15 miles per hour.
e. All grading and excavation operations shall be halted when wind speeds exceed 25 miles per hour.
f. Dirt and debris spilled onto paved surfaces at the project site and on the adjacent roadways shall be swept, vacuumed, and/or washed at the end of each workday.
g. All trucks hauling dirt, sand, soil, or other loose material to and from the construction site shall be covered and/or a minimum 2 feet of freeboard shall be maintained.



SOURCE: USGS 7.5-Minute Series Murrieta Quadrangle

DUDEK

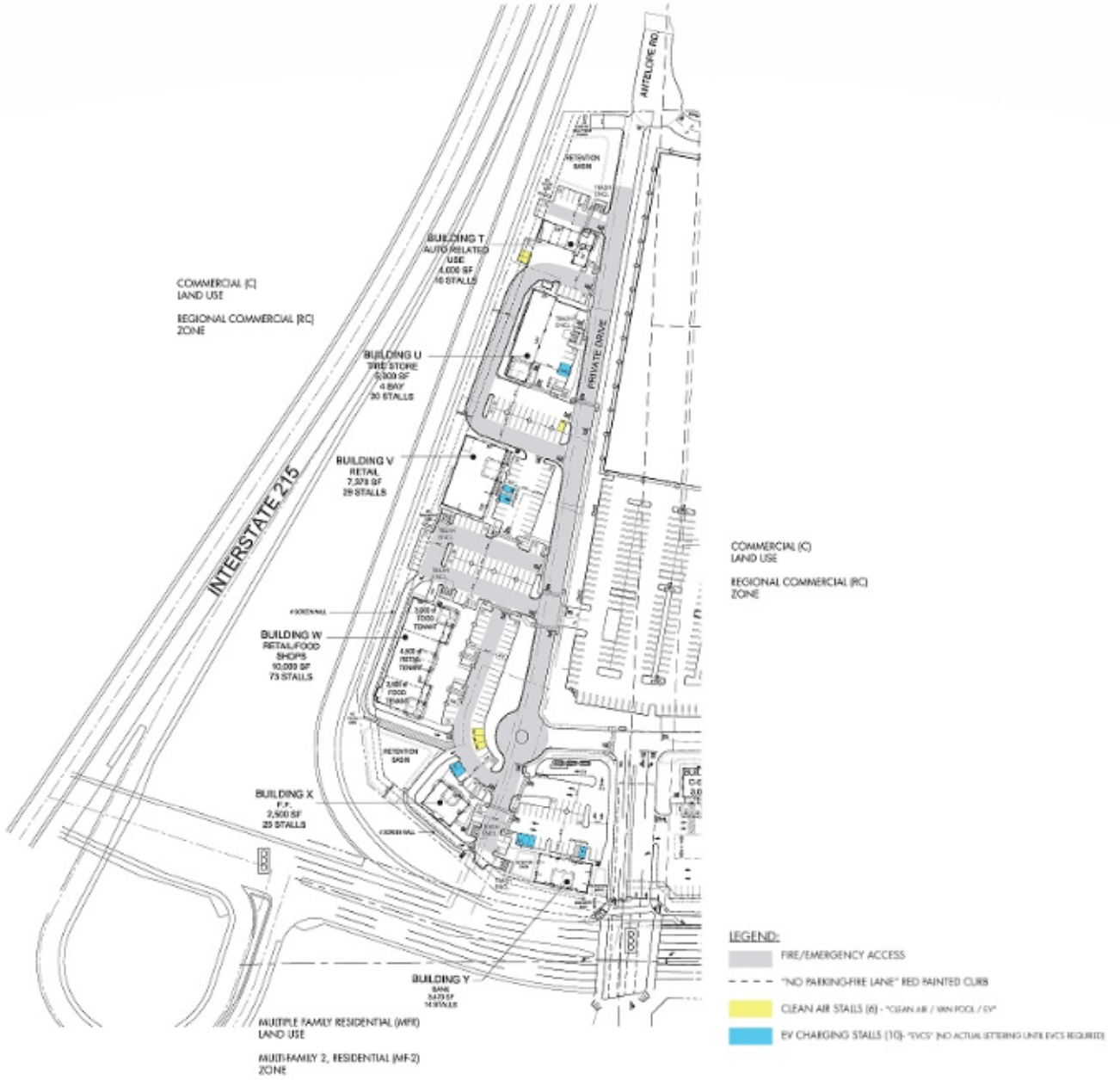
0 1,000 2,000 Feet

FIGURE 1

Project Location

Vineyard III Retail Development Project

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SOURCE: Architects Orange 2020

DUDEK

0 125 250 Feet

FIGURE 2

Site Plan

Vineyard III Retail Development Project

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2 Air Quality

2.1 Environmental Setting

As stated previously, the project site is located within the SCAB. The SCAB is a 6,745-square-mile area bounded by the Pacific Ocean to the west and the San Gabriel, San Bernardino, and San Jacinto Mountains to the north and east.

2.1.1 Meteorological and Topographical Conditions

The primary factors that determine air quality are the locations of air pollutant sources and the amount of pollutants emitted. Meteorological and topographical conditions, however, are also important. Factors such as wind speed and direction, air temperature gradients and sunlight, and precipitation and humidity interact with physical landscape features to determine the movement and dispersal of air pollutants. The SCAB's air pollution problems are a consequence of the combination of emissions from the nation's second largest urban area, meteorological conditions adverse to the dispersion of those emissions, and mountainous terrain surrounding the SCAB that traps pollutants as they are pushed inland with the sea breeze (SCAQMD 2017a). Meteorological and topographical factors that affect air quality in the SCAB are described below.[1]

Climate

The SCAB is characterized as having a Mediterranean climate (typified as semiarid with mild winters, warm summers, and moderate rainfall). The general region lies in the semi-permanent high-pressure zone of the eastern Pacific; as a result, the climate is mild and tempered by cool sea breezes. The usually mild climatological pattern is interrupted infrequently by periods of extremely hot weather, winter storms, or Santa Ana winds. The extent and severity of the air pollution problem in the SCAB is a function of the area's natural physical characteristics (e.g., weather and topography) and of manufactured influences (e.g., development patterns and lifestyle). Moderate temperatures, comfortable humidity, and limited precipitation characterize the climate in the SCAB. The average annual temperature varies little throughout the SCAB, averaging 75°F. However, with a less-pronounced oceanic influence, the eastern inland portions of the SCAB show greater variability in annual minimum and maximum temperatures. All portions of the SCAB have recorded temperatures over 100°F in recent years. Although the SCAB has a semiarid climate, the air near the surface is moist because of the presence of a shallow marine layer. Except for infrequent periods when dry air is brought into the SCAB by offshore winds, the ocean effect is dominant. Periods with heavy fog are frequent, and low stratus clouds, occasionally referred to as high fog, are a characteristic climate feature. Annual average relative humidity is 70% at the coast and 57% in the eastern part of the SCAB. Precipitation in the SCAB is typically 9–14 inches annually and is rarely in the form of snow or hail because of typically warm weather. The frequency and amount of rainfall is greater in the coastal areas of the SCAB.

In the City, the climate is typically warm during summer when temperatures tend to be in the 80°F range and cool during winter when temperatures tend to be in the 50°F range. The warmest month of the year is August with an average maximum temperature of 98°F; the coldest month of the year is December with an average minimum temperature of 34°F. The wettest month of the year is February with an average rainfall of 2.86 inches (City of Murrieta 2011b).

[1] The discussion of meteorological and topographical conditions of the SCAB is based on information provided in the Final 2016 Air Quality Management Plan (SCAQMD 2017a).

Sunlight

The presence and intensity of sunlight are necessary prerequisites for the formation of photochemical smog. Under the influence of the ultraviolet radiation of sunlight, certain primary pollutants (mainly reactive hydrocarbons and oxides of nitrogen (NO_x)[2]) react to form secondary pollutants (primarily oxidants). Since this process is time dependent, secondary pollutants can be formed many miles downwind of the emission sources. Southern California also has abundant sunshine, which drives the photochemical reactions that form pollutants such as ozone (O_3) and a substantial portion of fine particulate matter ($PM_{2.5}$, particulate matter with an aerodynamic diameter less than or equal to 2.5 microns). In the SCAB, high concentrations of O_3 are normally recorded during the late spring, summer, and early autumn months, when more intense sunlight drives enhanced photochemical reactions. Due to the prevailing daytime winds and time-delayed nature of photochemical smog, oxidant concentrations are highest in the inland areas of Southern California.

Temperature Inversions

Under ideal meteorological conditions and irrespective of topography, pollutants emitted into the air mix and disperse into the upper atmosphere. However, the Southern California region frequently experiences temperature inversions in which pollutants are trapped and accumulate close to the ground. The inversion, a layer of warm, dry air overlaying cool, moist marine air, is a normal condition in coastal Southern California. The cool, damp, and hazy sea air capped by coastal clouds is heavier than the warm, clear air, which acts as a lid through which the cooler marine layer cannot rise. The height of the inversion is important in determining pollutant concentration. When the inversion is approximately 2,500 feet amsl, the sea breezes carry the pollutants inland to escape over the mountain slopes or through the passes. At a height of 1,200 feet amsl, the terrain prevents the pollutants from entering the upper atmosphere, resulting in the pollutants settling in the foothill communities. Below 1,200 feet amsl, the inversion puts a tight lid on pollutants, concentrating them in a shallow layer over the entire coastal basin. Usually, inversions are lower before sunrise than during the daylight hours.

Mixing heights for inversions are lower in the summer and inversions are more persistent, being partly responsible for the high levels of O_3 observed during summer months in the SCAB. Smog in Southern California is generally the result of these temperature inversions combining with coastal day winds and local mountains to contain the pollutants for long periods, allowing them to form secondary pollutants by reacting in the presence of sunlight. The SCAB has a limited ability to disperse these pollutants due to typically low wind speeds and the surrounding mountain ranges.

As with other cities within the SCAB, the City is susceptible to air inversions, which trap a layer of stagnant air near the ground where pollutants are further concentrated. These inversions produce haziness, which is caused by moisture, suspended dust, and a variety of chemical aerosols emitted by trucks, automobiles, furnaces, and other sources. Elevated concentrations of particulate matter with an aerodynamic diameter less than or equal to 10 microns (PM_{10}) and $PM_{2.5}$ can occur in the SCAB throughout the year but occur most frequently in fall and winter. Although there are some changes in emissions by day of the week and season, the observed variations in pollutant concentrations are primarily the result of seasonal differences in weather conditions.

[2] NO_x is a general term pertaining to compounds of nitric oxide, nitrogen dioxide (NO_2), and other oxides of nitrogen.

2.1.2 Pollutants and Effects

2.1.2.1 Criteria Air Pollutants

Criteria air pollutants are defined as pollutants for which the federal and state governments have established ambient air quality standards, or criteria, for outdoor concentrations to protect public health. The federal and state standards have been set, with an adequate margin of safety, at levels above which concentrations could be harmful to human health and welfare. These standards are designed to protect the most sensitive persons from illness or discomfort. Pollutants of concern include O_3, nitrogen dioxide (NO_2), carbon monoxide (CO), sulfur dioxide (SO_2), PM_{10}, $PM_{2.5}$, and lead. These pollutants, as well as toxic air contaminants (TACs), are discussed in the following paragraphs.[3] In California, sulfates, vinyl chloride, hydrogen sulfide, and visibility-reducing particles are also regulated as criteria air pollutants.

Ozone. O_3 is a strong-smelling, pale blue, reactive, toxic chemical gas consisting of three oxygen atoms. It is a secondary pollutant formed in the atmosphere by a photochemical process involving the sun's energy and O_3 precursors. These precursors are mainly NO_x and volatile organic compounds (VOCs). The maximum effects of precursor emissions on O_3 concentrations usually occur several hours after they are emitted and many miles from the source. Meteorology and terrain play major roles in O_3 formation, and ideal conditions occur during summer and early autumn on days with low wind speeds or stagnant air, warm temperatures, and cloudless skies. O_3 exists in the upper atmosphere O_3 layer (stratospheric O_3) and at the Earth's surface in the troposphere (ground-level O_3).[4] The O_3 that the U.S. Environmental Protection Agency (EPA) and the California Air Resources Board (CARB) regulate as a criteria air pollutant is produced close to the ground level, where people live, exercise, and breathe. Ground-level O_3 is a harmful air pollutant that causes numerous adverse health effects and is thus considered bad O_3. Stratospheric, or good, O_3 occurs naturally in the upper atmosphere, where it reduces the amount of ultraviolet light (i.e., solar radiation) entering the Earth's atmosphere. Without the protection of the beneficial stratospheric O_3 layer, plant and animal life would be seriously harmed.

O_3 in the troposphere causes numerous adverse health effects; short-term exposures (lasting for a few hours) to O_3 at levels typically observed in Southern California can result in breathing pattern changes, reduction of breathing capacity, increased susceptibility to infections, inflammation of the lung tissue, and some immunological changes (EPA 2013). These health problems are particularly acute in sensitive receptors such as the sick, the elderly, and young children.

Nitrogen Dioxide. NO_2 is a brownish, highly reactive gas that is present in all urban atmospheres. The major mechanism for the formation of NO_2 in the atmosphere is the oxidation of the primary air pollutant nitric oxide, which is a colorless, odorless gas. NO_x plays a major role, together with VOCs, in the atmospheric reactions that produce O_3. NO_x is formed from fuel combustion under high temperature or pressure. In addition, NO_x is an important precursor to acid rain and may affect both terrestrial and aquatic ecosystems. The two major emissions sources are transportation and stationary fuel combustion sources such as electric utility and industrial boilers.

[3] The descriptions of each of the criteria air pollutants and associated health effects are based on the EPA's Criteria Air Pollutants (EPA 2016a) and the CARB Glossary of Air Pollutant Terms (CARB 2016a).

[4] The troposphere is the layer of the Earth's atmosphere nearest to the surface of the Earth. The troposphere extends outward about 5 miles at the poles and about 10 miles at the equator.

NO_2 can irritate the lungs, cause bronchitis and pneumonia, and lower resistance to respiratory infections (EPA 2016b).

Carbon Monoxide. CO is a colorless, odorless gas formed by the incomplete combustion of hydrocarbon, or fossil fuels. CO is emitted almost exclusively from motor vehicles, power plants, refineries, industrial boilers, ships, aircraft, and trains. In urban areas such as the project location, automobile exhaust accounts for the majority of CO emissions. CO is a nonreactive air pollutant that dissipates relatively quickly; therefore, ambient CO concentrations generally follow the spatial and temporal distributions of vehicular traffic. CO concentrations are influenced by local meteorological conditions—primarily wind speed, topography, and atmospheric stability. CO from motor vehicle exhaust can become locally concentrated when surface-based temperature inversions are combined with calm atmospheric conditions, which is a typical situation at dusk in urban areas from November to February. The highest levels of CO typically occur during the colder months of the year, when inversion conditions are more frequent.

In terms of adverse health effects, CO competes with oxygen, often replacing it in the blood, reducing the blood's ability to transport oxygen to vital organs. The results of excess CO exposure can include dizziness, fatigue, and impairment of central nervous system functions.

Sulfur Dioxide. SO_2 is a colorless, pungent gas formed primarily from incomplete combustion of sulfur-containing fossil fuels. The main sources of SO_2 are coal and oil used in power plants and industries; as such, the highest levels of SO_2 are generally found near large industrial complexes. In recent years, SO_2 concentrations have been reduced by the increasingly stringent controls placed on stationary source emissions of SO_2 and limits on the sulfur content of fuels.

SO_2 is an irritant gas that attacks the throat and lungs and can cause acute respiratory symptoms and diminished ventilator function in children. When combined with particulate matter, SO_2 can injure lung tissue and reduce visibility and the level of sunlight. SO_2 can also yellow plant leaves and erode iron and steel.

Particulate Matter. Particulate matter pollution consists of very small liquid and solid particles floating in the air, which can include smoke, soot, dust, salts, acids, and metals. Particulate matter can form when gases emitted from industries and motor vehicles undergo chemical reactions in the atmosphere. $PM_{2.5}$ and PM_{10} represent fractions of particulate matter. Coarse particulate matter (PM_{10}) consists of particulate matter that is 10 microns or less in diameter and is about 1/7 the thickness of a human hair. Major sources of PM_{10} include crushing or grinding operations; dust stirred up by vehicles traveling on roads; wood-burning stoves and fireplaces; dust from construction, landfills, and agriculture; wildfires and brush/waste burning; industrial sources; windblown dust from open lands; and atmospheric chemical and photochemical reactions. Fine particulate matter ($PM_{2.5}$) consists of particulate matter that is 2.5 microns or less in diameter and is roughly 1/28 the diameter of a human hair. $PM_{2.5}$ results from fuel combustion (e.g., from motor vehicles and power generation and industrial facilities), residential fireplaces, and woodstoves. In addition, $PM_{2.5}$ can be formed in the atmosphere from gases such as sulfur oxides (SO_x), NO_x, and VOCs.

$PM_{2.5}$ and PM_{10} pose a greater health risk than larger-size particles. When inhaled, these tiny particles can penetrate the human respiratory system's natural defenses and damage the respiratory tract. $PM_{2.5}$ and PM_{10} can increase the number and severity of asthma attacks, cause or aggravate bronchitis and other lung diseases, and reduce the body's ability to fight infections. Very small particles of substances such as lead, sulfates, and nitrates can cause lung damage directly or be absorbed into the blood stream, causing damage elsewhere in the body. Additionally, these substances can transport adsorbed gases such as chlorides or ammonium into the lungs, also causing injury. PM_{10} tends to collect in the upper portion of the respiratory system, whereas $PM_{2.5}$ is so tiny that it

can penetrate deeper into the lungs and damage lung tissue. Suspended particulates also damage and discolor surfaces on which they settle and produce haze and reduce regional visibility.

People with influenza, people with chronic respiratory and cardiovascular diseases, and the elderly may suffer worsening illness and premature death as a result of breathing particulate matter. People with bronchitis can expect aggravated symptoms from breathing in particulate matter. Children may experience a decline in lung function due to breathing in PM_{10} and $PM_{2.5}$ (EPA 2009).

Lead. Lead in the atmosphere occurs as particulate matter. Sources of lead include leaded gasoline; the manufacturing of batteries, paints, ink, ceramics, and ammunition; and secondary lead smelters. Prior to 1978, mobile emissions were the primary source of atmospheric lead. Between 1978 and 1987, the phaseout of leaded gasoline reduced the overall inventory of airborne lead by nearly 95%. With the phaseout of leaded gasoline, secondary lead smelters, battery recycling, and manufacturing facilities are becoming lead-emissions sources of greater concern.

Prolonged exposure to atmospheric lead poses a serious threat to human health. Health effects associated with exposure to lead include gastrointestinal disturbances, anemia, kidney disease, and, in severe cases, neuromuscular and neurological dysfunction. Of particular concern are low-level lead exposures during infancy and childhood. Such exposures are associated with decrements in neurobehavioral performance, including intelligence quotient performance, psychomotor performance, reaction time, and growth. Children are highly susceptible to the effects of lead.

Volatile Organic Compounds. Hydrocarbons are organic gases that are formed from hydrogen and carbon and sometimes other elements. Hydrocarbons that contribute to formation of O_3 are referred to and regulated as VOCs (also referred to as reactive organic gases). Combustion engine exhaust, oil refineries, and fossil-fueled power plants are the sources of hydrocarbons. Other sources of hydrocarbons include evaporation from petroleum fuels, solvents, dry cleaning solutions, and paint.

The primary health effects of VOCs result from the formation of O_3 and its related health effects. High levels of VOCs in the atmosphere can interfere with oxygen intake by reducing the amount of available oxygen through displacement. Carcinogenic forms of hydrocarbons, such as benzene, are considered TACs. There are no separate health standards for VOCs as a group.

2.1.2.2 Non-Criteria Air Pollutants

Toxic Air Contaminants. A substance is considered toxic if it has the potential to cause adverse health effects in humans, including increasing the risk of cancer upon exposure, or acute and/or chronic noncancer health effects. A toxic substance released into the air is considered a TAC. TACs are identified by federal and state agencies based on a review of available scientific evidence. In the State of California, TACs are identified through a two-step process that was established in 1983 under the Toxic Air Contaminant Identification and Control Act. This two-step process of risk identification and risk management and reduction was designed to protect residents from the health effects of toxic substances in the air. In addition, the California Air Toxics "Hot Spots" Information and Assessment Act, Assembly Bill (AB) 2588, was enacted by the legislature in 1987 to address public concern over the release of TACs into the atmosphere. The law requires facilities emitting toxic substances to provide local air pollution control districts with information that will allow an assessment of the air toxics problem, identification of air

toxics emissions sources, location of resulting hotspots, notification of the public exposed to significant risk, and development of effective strategies to reduce potential risks to the public over 5 years.

Examples of TACs include certain aromatic and chlorinated hydrocarbons, certain metals, and asbestos. TACs are generated by a number of sources, including stationary sources such as dry cleaners, gas stations, combustion sources, and laboratories; mobile sources such as automobiles; and area sources such as landfills. Adverse health effects associated with exposure to TACs may include carcinogenic (i.e., cancer-causing) and noncarcinogenic effects. Noncarcinogenic effects typically affect one or more target organ systems and may be experienced on either short-term (acute) or long-term (chronic) exposure to a given TAC.

Diesel Particulate Matter. Diesel particulate matter (DPM) is part of a complex mixture that makes up diesel exhaust. Diesel exhaust is composed of two phases, gas and particle, both of which contribute to health risks. More than 90% of DPM is less than 1 micrometer in diameter (about 1/70th the diameter of a human hair), and thus is a subset of $PM_{2.5}$ (CARB 2016b). DPM is typically composed of carbon particles (soot, also called black carbon) and numerous organic compounds, including over 40 known cancer-causing organic substances. Examples of these chemicals include polycyclic aromatic hydrocarbons, benzene, formaldehyde, acetaldehyde, acrolein, and 1,3-butadiene (CARB 2016b). The CARB classified "particulate emissions from diesel-fueled engines" (i.e., DPM) (17 CCR 93000) as a TAC in August 1998. DPM is emitted from a broad range of diesel engines: on-road diesel engines of trucks, buses, and cars and off-road diesel engines, including locomotives, marine vessels, and heavy-duty construction equipment, among others. Approximately 70% of all airborne cancer risk in California is associated with DPM (CARB 2000). To reduce the cancer risk associated with DPM, CARB adopted a diesel risk reduction plan in 2000 (CARB 2000). Because it is part of $PM_{2.5}$, DPM also contributes to the same noncancer health effects as $PM_{2.5}$ exposure. These effects include premature death; hospitalizations and emergency department visits for exacerbated chronic heart and lung disease, including asthma; increased respiratory symptoms; and decreased lung function in children. Several studies suggest that exposure to DPM may also facilitate development of new allergies (CARB 2016b). Those most vulnerable to noncancer health effects are children whose lungs are still developing and the elderly who often have chronic health problems.

Odorous Compounds. Odors are generally regarded as an annoyance rather than a health hazard. Manifestations of a person's reaction to odors can range from psychological (e.g., irritation, anger, or anxiety) to physiological (e.g., circulatory and respiratory effects, nausea, vomiting, and headache). The ability to detect odors varies considerably among the population and overall is subjective. People may have different reactions to the same odor. An odor that is offensive to one person may be perfectly acceptable to another (e.g., coffee roaster). An unfamiliar odor is more easily detected and is more likely to cause complaints than a familiar one. Known as odor fatigue, a person can become desensitized to almost any odor, and recognition may only occur with an alteration in the intensity. The occurrence and severity of odor impacts depend on the nature, frequency, and intensity of the source; wind speed and direction; and the sensitivity of receptors.

Valley Fever. Coccidioidomycosis, more commonly known as valley fever, is an infection caused by inhalation of the spores of the *Coccidioides immitis* fungus, which grows in the soils of the southwestern United States. When fungal spores are present, any activity that disturbs the soil, such as digging, grading, or other earth-moving operations, can cause the spores to become airborne and thereby increase the risk of exposure. The ecologic factors that appear to be most conducive to survival and replication of the spores are high summer temperatures, mild winters, sparse rainfall, and alkaline sandy soils.

Valley fever is not considered highly endemic to Riverside County. Per the California Department of Public Health, the 8-year average (2011–2018) for coccidioidomycosis cases in Riverside County is 5.6 cases per 100,000 people per year. For the zip code 92563, where the project site is located, incidence of coccidioidomycosis is too few to be reliably used to calculate a rate (Lopez 2018). Statewide incidences in 2018 were 18.8 per 100,000 people (CDPH 2019).

Even if present at a site, earth-moving activities may not result in increased incidence of valley fever. Propagation of *Coccidioides immitis* is dependent on climatic conditions, with the potential for growth and surface exposure highest following early seasonal rains and long dry spells. *Coccidioides immitis* spores can be released when filaments are disturbed by earth-moving activities, although receptors must be exposed to and inhale the spores to be at increased risk of developing valley fever. Moreover, exposure to *Coccidioides immitis* does not guarantee that an individual will become ill—approximately 60% of people exposed to the fungal spores are asymptomatic and show no signs of an infection (USGS 2000).

2.1.3 Sensitive Receptors

Some land uses are considered more sensitive to changes in air quality than others, depending on the population groups and the activities involved. People most likely to be affected by air pollution include children, the elderly, athletes, and people with cardiovascular and chronic respiratory diseases. Facilities and structures where these air pollution-sensitive people live or spend considerable amounts of time are known as sensitive receptors. Land uses where air pollution-sensitive individuals are most likely to spend time include schools and schoolyards, parks and playgrounds, daycare centers, nursing homes, hospitals, and residential communities (sensitive sites or sensitive land uses) (CARB 2005). The SCAQMD identifies sensitive receptors as residences, schools, playgrounds, childcare centers, long-term healthcare facilities, rehabilitation centers, convalescent centers, and retirement homes (SCAQMD 1993). The closest off-site sensitive receptors to the project site include Vista Murrieta High School and residences located approximately 175 feet to the south.

2.2 Regulatory Setting

2.2.1 Federal Regulations

2.2.1.1 Criteria Air Pollutants

The federal Clean Air Act, passed in 1970 and last amended in 1990, forms the basis for the national air pollution control effort. The EPA is responsible for implementing most aspects of the Clean Air Act, including setting National Ambient Air Quality Standards (NAAQS) for major air pollutants; setting hazardous air pollutant (HAP) standards; approving state attainment plans; setting motor vehicle emission standards; issuing stationary source emission standards and permits; and establishing acid rain control measures, stratospheric O_3 protection measures, and enforcement provisions. Under the Clean Air Act, NAAQS are established for the following criteria pollutants: O_3, CO, NO_2, SO_2, PM_{10}, $PM_{2.5}$, and lead.

The NAAQS describe acceptable air quality conditions designed to protect the health and welfare of the citizens of the nation. The NAAQS (other than for O_3, NO_2, SO_2, PM_{10}, $PM_{2.5}$, and those based on annual averages or arithmetic mean) are not to be exceeded more than once per year. NAAQS for O_3, NO_2, SO_2, PM_{10}, and $PM_{2.5}$ are

based on statistical calculations over 1- to 3-year periods, depending on the pollutant. The Clean Air Act requires the EPA to reassess the NAAQS at least every 5 years to determine whether adopted standards are adequate to protect public health based on current scientific evidence. States with areas that exceed the NAAQS must prepare a state implementation plan that demonstrates how those areas will attain the NAAQS within mandated time frames. A more detailed discussion of the NAAQS, as well as the California Ambient Air Quality Standards (CAAQS) (discussed below).

2.2.1.2 Hazardous Air Pollutants

The 1977 federal Clean Air Act amendments required the EPA to identify National Emission Standards for HAPs to protect public health and welfare. HAPs include certain volatile organic chemicals, pesticides, herbicides, and radionuclides that present a tangible hazard, based on scientific studies of exposure to humans and other mammals. Under the 1990 federal Clean Air Act Amendments, which expanded the control program for HAPs, 189 substances and chemical families were identified as HAPs.

2.2.2 State Regulations

2.2.2.1 Criteria Air Pollutants

The federal Clean Air Act delegates the regulation of air pollution control and the enforcement of the NAAQS to the states. In California, the task of air quality management and regulation has been legislatively granted to CARB, with subsidiary responsibilities assigned to air quality management districts and air pollution control districts at the regional and county levels. CARB, which became part of the California Environmental Protection Agency in 1991, is responsible for ensuring implementation of the California Clean Air Act of 1988, responding to the federal Clean Air Act, and regulating emissions from motor vehicles and consumer products.

CARB has established the CAAQS, which are generally more restrictive than the NAAQS. As stated previously, an ambient air quality standard defines the maximum amount of a pollutant averaged over a specified period of time that can be present in outdoor air without harm to the public's health. For each pollutant, concentrations must be below the relevant CAAQS before a basin can attain the corresponding CAAQS. Air quality is considered *in attainment* if pollutant levels are continuously below the CAAQS and violate the standards no more than once each year. The CAAQS for O_3, CO, SO_2 (1 hour and 24 hour), NO_2, PM_{10}, $PM_{2.5}$, and visibility-reducing particles are values that are not to be exceeded. All others are not to be equaled or exceeded.

California air districts have based their thresholds of significance for CEQA purposes on the levels that scientific and factual data demonstrate that the air basin can accommodate without affecting the attainment date for the NAAQS or CAAQS. Since an ambient air quality standard is based on maximum pollutant levels in outdoor air that would not harm the public's health, and air district thresholds pertain to attainment of the ambient air quality standard, this means that the thresholds established by air districts are also protective of human health. The NAAQS and CAAQS are presented in Table 1.

Table 1. Ambient Air Quality Standards

Pollutant	Averaging Time	California Standards[a]	National Standards[b]	
		Concentration[c]	*Primary*[c,d]	*Secondary*[c,e]
O_3	1 hour	0.09 ppm (180 µg/m³)	—	Same as Primary Standard[f]
	8 hours	0.070 ppm (137 µg/m³)	0.070 ppm (137 µg/m³)[f]	
NO_2[g]	1 hour	0.18 ppm (339 µg/m³)	0.100 ppm (188 µg/m³)	Same as Primary Standard
	Annual Arithmetic Mean	0.030 ppm (57 µg/m³)	0.053 ppm (100 µg/m³)	
CO	1 hour	20 ppm (23 mg/m³)	35 ppm (40 mg/m³)	None
	8 hours	9.0 ppm (10 mg/m³)	9 ppm (10 mg/m³)	
SO_2[h]	1 hour	0.25 ppm (655 µg/m³)	0.075 ppm (196 µg/m³)	—
	3 hours	—	—	0.5 ppm (1,300 µg/m³)
	24 hours	0.04 ppm (105 µg/m³)	0.14 ppm (for certain areas)[g]	—
	Annual	—	0.030 ppm (for certain areas)[g]	—
PM_{10}[i]	24 hours	50 µg/m³	150 µg/m³	Same as Primary Standard
	Annual Arithmetic Mean	20 µg/m³	—	
$PM_{2.5}$[i]	24 hours	—	35 µg/m³	Same as Primary Standard
	Annual Arithmetic Mean	12 µg/m³	12.0 µg/m³	15.0 µg/m³
Lead[j,k]	30-day Average	1.5 µg/m³	—	—
	Calendar Quarter	—	1.5 µg/m³ (for certain areas)[k]	Same as Primary Standard
	Rolling 3-Month Average	—	0.15 µg/m³	
Hydrogen sulfide	1 hour	0.03 ppm (42 µg/m³)	—	—
Vinyl chloride[j]	24 hours	0.01 ppm (26 µg/m³)	—	—
Sulfates	24- hours	25 µg/m³	—	—
Visibility reducing particles	8 hour (10:00 a.m. to 6:00 p.m. PST)	Insufficient amount to produce an extinction coefficient of 0.23 per kilometer due to the number of particles when the relative humidity is less than 70%	—	—

Source: CARB 2016c.

Notes: O_3 = ozone; ppm = parts per million by volume; µg/m³ = micrograms per cubic meter; NO_2 = nitrogen dioxide; CO = carbon monoxide; mg/m³ = milligrams per cubic meter; SO_2 = sulfur dioxide; PM_{10} = particulate matter with an aerodynamic diameter less than or equal to 10 microns; $PM_{2.5}$ = particulate matter with an aerodynamic diameter less than or equal to 2.5 microns; PST = Pacific Standard Time.

[a] California standards for O_3, CO, SO_2 (1-hour and 24-hour), NO_2, suspended particulate matter (PM_{10}, $PM_{2.5}$), and visibility-reducing particles are values that are not to be exceeded. All others are not to be equaled or exceeded. CAAQS are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.

[b] National standards (other than O_3, NO_2, SO_2, particulate matter, and those based on annual averages or annual arithmetic mean) are not to be exceeded more than once per year. The O_3 standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over 3 years, is equal to or less than the standard. For PM_{10}, the 24-hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 µg/m³ is equal to or less than 1. For $PM_{2.5}$, the 24-hour standard is attained when 98% of the daily concentrations, averaged over 3 years, are equal to or less than the standard.

[c] Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based on a reference temperature of 25°C and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of 25°C and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.

[d] National Primary Standards: The levels of air quality necessary, with an adequate margin of safety, to protect the public health.

[e] National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.

[f] On October 1, 2015, the national 8-hour O_3 primary and secondary standards were lowered from 0.075 to 0.070 ppm.

[g] To attain the national 1-hour standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 parts per billion (ppb). Note that the national 1-hour standard is in units of ppb. California standards are in units of ppm. To directly compare the national 1-hour standard to the California standards, the units can be converted from ppb to ppm. In this case, the national standard of 100 ppb is identical to 0.100 ppm.

[h] On June 2, 2010, a new 1-hour SO_2 standard was established, and the existing 24-hour and annual primary standards were revoked. To attain the national 1-hour standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971 SO_2 national standards (24-hour and annual) remain in effect until 1 year after an area is designated for the 2010 standard, except that in areas designated nonattainment of the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved.

[i] On December 14, 2012, the national annual $PM_{2.5}$ primary standard was lowered from 15 µg/m³ to 12.0 µg/m.³ The existing national 24-hour $PM_{2.5}$ standards (primary and secondary) were retained at 35 µg/m³, as was the annual secondary standard of 15 µg/m.³ The existing 24-hour PM_{10} standards (primary and secondary) of 150 µg/m³ were also retained. The form of the annual primary and secondary standards is the annual mean averaged over 3 years.

[j] CARB has identified lead and vinyl chloride as TACs with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.

[k] The national standard for lead was revised on October 15, 2008, to a rolling 3-month average. The 1978 lead standard (1.5 µg/m³ as a quarterly average) remains in effect until 1 year after an area is designated for the 2008 standard, except that in areas designated nonattainment for the 1978 standard, the 1978 standard remains in effect until implementation plans to attain or maintain the 2008 standard are approved.

2.2.2.2 Toxic Air Contaminants

The state Air Toxics Program was established in 1983 under AB 1807. The California TAC list identifies more than 700 pollutants, of which carcinogenic and noncarcinogenic toxicity criteria have been established for a subset of these pollutants pursuant to the California Health and Safety Code. In accordance with AB 2728, the state list includes the (federal) HAPs. In 1987, the Legislature enacted the Air Toxics "Hot Spots" Information and Assessment Act of 1987 (AB 2588) to address public concern over the release of TACs into the atmosphere. AB 2588 requires facilities emitting toxic substances to provide local air pollution control districts with information that will allow an assessment of the air toxics problem, identification of air toxics emissions sources, location of resulting hotspots, notification of the public exposed to significant risk, and development of effective strategies to reduce potential risks to the public over 5 years. TAC emissions from individual facilities are quantified and prioritized. High-priority facilities are required to perform a health risk assessment (HRA), and if specific thresholds are exceeded, the facility operator is required to communicate the results to the public in the form of notices and public meetings.

In 2000, CARB approved a comprehensive Diesel Risk Reduction Plan to reduce diesel emissions from both new and existing diesel-fueled vehicles and engines (CARB 2000). The regulation is anticipated to result in an 80% decrease in statewide diesel health risk in 2020 compared with the diesel risk in 2000. Additional regulations

apply to new trucks and diesel fuel, including the On-Road Heavy Duty Diesel Vehicle (In-Use) Regulation, the On-Road Heavy Duty (New) Vehicle Program, the In-Use Off-Road Diesel Vehicle Regulation, and the New Off-Road Compression-Ignition (Diesel) Engines and Equipment program. These regulations and programs have timetables by which manufacturers must comply and existing operators must upgrade their diesel-powered equipment. There are several Airborne Toxic Control Measures that reduce diesel emissions, including In-Use Off-Road Diesel-Fueled Fleets (13 CCR 2449 et seq.) and In-Use On-Road Diesel-Fueled Vehicles (13 CCR 2025).

California Health and Safety Code Section 41700

Section 41700 of the Health and Safety Code states that a person shall not discharge from any source whatsoever quantities of air contaminants or other material that cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public; or that endanger the comfort, repose, health, or safety of any of those persons or the public; or that cause, or have a natural tendency to cause, injury or damage to business or property. This section also applies to sources of objectionable odors.

2.2.3 Local Regulations

2.2.3.1 South Coast Air Quality Management District

The SCAQMD is the regional agency responsible for the regulation and enforcement of federal, state, and local air pollution control regulations in the SCAB, where the project is located. The SCAQMD operates monitoring stations in the SCAB, develops rules and regulations for stationary sources and equipment, prepares emissions inventory and air quality management planning documents, and conducts source testing and inspections. The SCAQMD's Air Quality Management Plans (AQMPs) include control measures and strategies to be implemented to attain state and federal ambient air quality standards in the SCAB. The SCAQMD then implements these control measures as regulations to control or reduce criteria pollutant emissions from stationary sources or equipment.

The most recent adopted AQMP is the 2016 AQMP (SCAQMD 2017a), which was adopted by the SCAQMD governing board on March 3, 2017. The 2016 AQMP is a regional blueprint for achieving air quality standards and healthful air. The 2016 AQMP represents a new approach, focusing on available, proven, and cost effective alternatives to traditional strategies, while seeking to achieve multiple goals in partnership with other entities promoting reductions in GHGs and toxic risk, as well as efficiencies in energy use, transportation, and goods movement (SCAQMD 2017a). Because mobile sources are the principal contributor to the SCAB's air quality challenges, the SCAQMD has been and will continue to be closely engaged with CARB and the EPA, who have primary responsibility for these sources. The 2016 AQMP recognizes the critical importance of working with other agencies to develop funding and other incentives that encourage the accelerated transition of vehicles, buildings, and industrial facilities to cleaner technologies in a manner that benefits not only air quality but also local businesses and the regional economy. These win-win scenarios are key to implementation of the 2016 AQMP with broad support from a wide range of stakeholders.

Applicable Rules

Emissions that would result from mobile, area, and stationary sources during construction and operation of the project are subject to the rules and regulations of the SCAQMD. The SCAQMD rules applicable to the project may include the following:

- **Rule 401 – Visible Emissions:** This rule establishes the limit for visible emissions from stationary sources.

- **Rule 402 – Nuisance:** This rule prohibits the discharge of air pollutants from a facility that cause injury, detriment, nuisance, or annoyance to the public or damage to business or property.
- **Rule 403 – Fugitive Dust:** This rule requires fugitive dust sources to implement best available control measures for all sources and prohibits all forms of visible particulate matter from crossing any property line. SCAQMD Rule 403 is intended to reduce PM_{10} emissions from any transportation, handling, construction, or storage activity that has the potential to generate fugitive dust.
- **Rule 431.2 – Sulfur Content of Liquid Fuels:** The purpose of this rule is to limit the sulfur content in diesel and other liquid fuels for the purpose of reducing the formation of SO_x and particulates during combustion and of enabling the use of add-on control devices for diesel-fueled internal combustion engines. The rule applies to all refiners, importers, and other fuel suppliers such as distributors, marketers, and retailers, as well as to users of diesel, low-sulfur diesel, and other liquid fuels for stationary-source applications in the SCAQMD. The rule also affects diesel fuel supplied for mobile sources.
- **Rule 1110.2 – Emissions from Gaseous- and Liquid-Fueled Engines:** This rule applies to stationary and portable engines rated at greater than 50 horsepower. The purpose of Rule 1110.2 is to reduce NO_x, VOCs, and CO emissions from engines. Emergency engines, including those powering standby generators, are generally exempt from the emissions and monitoring requirements of this rule because they have permit conditions that limit operation to 200 hours or less per year as determined by an elapsed operating time meter.
- **Rule 1113 – Architectural Coatings:** This rule requires manufacturers, distributors, and end users of architectural and industrial maintenance coatings to reduce VOC emissions from the use of these coatings, primarily by placing limits on the VOC content of various coating categories.

2.2.3.2 Southern California Association of Governments

The Southern California Association of Governments (SCAG) is the regional planning agency for Los Angeles, Orange, Ventura, Riverside, San Bernardino, and Imperial Counties and serves as a forum for regional issues relating to transportation, the economy, community development, and the environment. SCAG serves as the federally designated metropolitan planning organization for the Southern California region and is the largest metropolitan planning organization in the United States.

With respect to air quality planning and other regional issues, SCAG has prepared the 2008 Regional Comprehensive Plan (RCP): Helping Communities Achieve a Sustainable Future for the region (SCAG 2008). The 2008 RCP sets the policy context in which SCAG participates, responds to the SCAQMD air quality plans, and builds off the SCAQMD AQMP processes that are designed to meet health-based criteria pollutant standards in several ways (SCAG 2008). First, the 2008 RCP complements AQMPs by providing guidance and incentives for public agencies to consider best practices that support the technology-based control measures in AQMPs. Second, the 2008 RCP emphasizes the need for local initiatives that can reduce the region's GHG emissions that contribute to climate change, an issue that is largely outside the focus of local attainment plans, which is assessed in Chapter 3. Third, the 2008 RCP emphasizes the need for better coordination of land use and transportation planning, which heavily influences the emissions inventory from the transportation sectors of the economy. This also minimizes land use conflicts, such as residential development near freeways, industrial areas, or other sources of air pollution.

On April 7, 2016, SCAG's Regional Council adopted the 2016–2040 Regional Transportation Plan (RTP)/Sustainable Communities Strategy (SCS). The 2016 RTP/SCS is a long-range visioning plan that balances future mobility and housing needs with economic, environmental, and public health goals. The 2016 RTP/SCS

charts a course for closely integrating land use and transportation so that the region can grow smartly and sustainably. The 2016 RTP/SCS was prepared through a collaborative, continuous, and comprehensive process with input from local governments, county transportation commissions, tribal governments, nonprofit organizations, businesses, and local stakeholders within Imperial, Los Angeles, Orange, Riverside, San Bernardino, and Ventura Counties. In June 2016, SCAG received its conformity determination from the Federal Highway Administration and the Federal Transit Administration indicating that all air quality conformity requirements for the 2016 RTP/SCS and associated 2015 Federal Transportation Improvement Program Consistency Amendment through Amendment 15-12 have been met (SCAG 2016). The SCAQMD 2016 AQMP applies the updated SCAG growth forecasts assumed in the 2016 RTP/SCS.

2.2.3.3 City of Murrieta

The Air Quality Element of the Murrieta General Plan 2035 (General Plan) (City of Murrieta 2011b) includes the following goals and policies that would apply to the project:

GOAL AQ-1 Improved air quality through participation in regional and local efforts.

GOAL AQ-3 Reduced emissions during construction activities.

Policy AQ-3.1 Ensure that construction activities follow current SCAQMD rules, regulations, and thresholds.

Policy AQ-3.2 Ensure all applicable best management practices are used in accordance with the SCAQMD to reduce emitting criteria pollutants during construction.

Policy AQ-3.3 Require all construction equipment for public and private projects comply with CARB's vehicle standards. For projects that may exceed daily construction emissions established by the SCAQMD, Best Available Control Measures will be incorporated to reduce construction emissions to below daily emission standards established by the SCAQMD.

Policy AQ-3.4 Require project proponents to prepare and implement a Construction Management Plan, which will include Best Available Control Measures among others. Appropriate control measures will be determined on a project by project basis, and should be specific to the pollutant for which the daily threshold is exceeded.

GOAL AQ-5 Air quality is improved through an efficient circulation system, reduced traffic congestion, and reduced vehicle miles traveled.

Policy AQ-5.1 Encourage employers to implement transportation demand management (TDM) measures, such as the following programs to reduce trips and vehicle miles traveled:

- Transit subsidies
- Bicycle facilities
- Alternating work schedules

- Ridesharing
- Telecommuting and work-at-home programs
- Employee education
- Preferential parking for carpools/vanpools

Policy AQ-5.2 Re-designate truck routes away from sensitive land uses including schools, hospitals, elder and childcare facilities, or residences, where feasible.

Policy AQ-5.7 Reduce industrial truck idling by enforcing California's 5-minute maximum law, requiring warehouse and distribution facilities to provide adequate on site truck parking, and requiring refrigerated warehouses to provide generators for refrigerated trucks.

GOAL AQ-6 Stationary source pollution (point source and area source) are minimized through existing and future regulations and new technology.

Policy AQ-6.7 During the design review process, encourage the use of measures to reduce indoor air quality impacts (i.e., air filtration systems, kitchen range top exhaust fans, and low-VOC paint and carpet for new developments and busy roadways with significant volumes of heavy truck traffic).

GOAL AQ-7 Particulate matter and fugitive dust emissions are reduced throughout the City.

Policy AQ-7.4 Consider the suspension of all grading operations, not including dust control actions, at construction projects when the source represents a public nuisance or potential safety hazard due to reduced visibility on streets surrounding the property.

The City has established a policy program that addresses air quality through new development and balanced growth, land use compatibility, and coordination and compliance with regulatory agencies and new regulations/requirements. The responsibility of implementing the goals and policies of the Air Quality Element are assigned to the City's Community Development Department, and in some instances, this authority is shared with the SCAQMD and the SCAG.

2.3 Regional and Local Air Quality Conditions

2.3.1 South Coast Air Basin Attainment Designation

Pursuant to the 1990 federal Clean Air Act amendments, the EPA classifies air basins (or portions thereof) as *attainment* or *nonattainment* for each criteria air pollutant, based on whether the NAAQS have been achieved. Generally, if the recorded concentrations of a pollutant are lower than the standard, the area is classified as attainment for that pollutant. If an area exceeds the standard, the area is classified as nonattainment for that pollutant. If there is not enough data available to determine whether the standard is exceeded in an area, the area is designated as *unclassified* or *unclassifiable*. The designation of *unclassifiable/attainment* means that the area meets the standard or is expected to be meet the standard despite a lack of monitoring data. Areas that achieve the standards after a nonattainment designation are re-designated as maintenance areas and must have

approved maintenance plans to ensure continued attainment of the standards. The California Clean Air Act, like its federal counterpart, called for the designation of areas as attainment or nonattainment, but based on CAAQS rather than the NAAQS. Table 2 depicts the current attainment status of the project site with respect to the NAAQS and CAAQS, as well as the attainment classifications for the criteria pollutants.

Table 2. South Coast Air Basin Attainment Classification

Pollutant	Designation/Classification	
	National Standards	*California Standards*
Ozone (O_3) – 1 hour	No National Standard	**Nonattainment**
Ozone (O_3) – 8 hour	**Extreme Nonattainment**	**Nonattainment**
Nitrogen Dioxide (NO_2)	Unclassifiable/Attainment	Attainment
Carbon Monoxide (CO)	Attainment/Maintenance	Attainment
Sulfur Dioxide (SO_2)	Unclassifiable/Attainment	Attainment
Coarse Particulate Matter (PM_{10})	Attainment/Maintenance	**Nonattainment**
Fine Particulate Matter ($PM_{2.5}$)	**Serious Nonattainment**	**Nonattainment**
Lead (Pb)	**Nonattainment**	Attainment
Hydrogen Sulfide	No National Standard	Unclassified
Sulfates	No National Standard	Attainment
Visibility-Reducing Particles	No National Standard	Unclassified
Vinyl Chloride	No National Standard	No designation

Sources: EPA 2016c (national); CARB 2016d (California).
Notes: Bold text = not in attainment; Attainment = meets the standards; Attainment/Maintenance = achieves the standards after a nonattainment designation; Nonattainment = does not meet the standards; Unclassified or Unclassifiable = insufficient data to classify; Unclassifiable/Attainment = meets the standard or is expected to be meet the standard despite a lack of monitoring data.

In summary, the SCAB is designated as a nonattainment area for federal and state O_3 standards and federal and state $PM_{2.5}$ standards. The SCAB is designated as a nonattainment area for state PM_{10} standards; however, it is designated as an attainment area for federal PM_{10} standards. The SCAB is designated as an attainment area for federal and state CO standards, federal and state NO_2 standards, and federal and state SO_2 standards. While the SCAB has been designated as nonattainment for the federal rolling 3-month average lead standard, it is designated attainment for the state lead standard (EPA 2016c; CARB 2016d).

Despite the current nonattainment status, air quality within the SCAB has generally improved since the inception of air pollutant monitoring in 1976. This improvement is mainly due to lower-polluting on-road motor vehicles, more stringent regulation of industrial sources, and the implementation of emission reduction strategies by the SCAQMD. This trend toward cleaner air has occurred in spite of continued population growth. PM_{10} levels have declined almost 50% since 1990, and $PM_{2.5}$ levels have also declined 50% since measurements began in 1999 (SCAQMD 2013). Similar improvements are observed with O_3, although the rate of O_3 decline has slowed in recent years.

2.3.2 Local Ambient Air Quality

CARB, air districts, and other agencies monitor ambient air quality at approximately 250 air quality monitoring stations across the state. The SCAQMD monitors local ambient air quality at the project site. Air quality monitoring stations usually measure pollutant concentrations 10 feet above ground level; therefore, air quality is often referred to in terms of ground-level concentrations. The most recent background ambient air quality data from 2016 to 2018 are presented in Table 3. The Lake Elsinore monitoring station, located at 506 West Flint Street,

Lake Elsinore, California 92530, is the nearest air quality monitoring station to the project site, located approximately 10.3 miles northwest from the project site. The data collected at this station are considered representative of the air quality experienced in the project vicinity. Air quality data for CO, O_3, NO_2, CO, and PM_{10} from the Lake Elsinore monitoring station are provided in Table 3. Because SO_2 and $PM_{2.5}$ are not monitored at the Lake Elsinore monitoring station, SO_2 measurements were taken from the Rubidoux monitoring station (5888 Mission Boulevard, Rubidoux, California 92509, approximately 30 miles northwest from the project site) and $PM_{2.5}$ measurements are taken from the Temecula monitoring station (12705 Pechanga Road, Temecula, California 92592, approximately 11.5 miles southeast from the project site). The number of days exceeding the ambient air quality standards are also shown in Table 3.

Table 3. Local Ambient Air Quality Data

Monitoring Station	Unit	Averaging Time	Agency/ Method	Ambient Air Quality Standard	Measured Concentration by Year			Exceedances by Year		
					2016	*2017*	*2018*	*2016*	*2017*	*2018*
Ozone (O_3)										
Lake Elsinore	ppm	Maximum 1-hour concentration	California	0.09	0.124	0.121	0.116	15	23	23
	ppm	Maximum 8-hour concentration	California	0.070	0.093	0.098	0.095	44	54	30
			National	0.070	0.093	0.098	0.095	44	54	30
Nitrogen Dioxide (NO_2)										
Lake Elsinore	ppm	Maximum 1-hour concentration	California	0.18	0.051	0.049	0.041	0	0	0
			National	0.100	0.0513	0.0490	0.041	0	0	0
	ppm	Annual concentration	California	0.030	—	—	—	—	—	—
			National	0.053	0.008	0.008	0.009	—	—	—
Carbon Monoxide (CO)										
Lake Elsinore	ppm	Maximum 1-hour concentration	California	20	—	—	—	—	—	—
			National	35	1.2	1.2	1.1	0	0	0
	ppm	Maximum 8-hour concentration	California	9.0	—	—	—	—	—	—
			National	9	0.6	0.8	0.8	0	0	0
Sulfur Dioxide (SO_2)										
Rubidoux	ppm	Maximum 1-hour concentration	National	0.075	0.056	0.020	0.017	—	—	—
	ppm	Maximum 24-hour concentration	National	0.14	0.0012	0.003	0.001	—	—	—
	ppm	Annual concentration	National	0.030	0.0002	0.0008	0.0005	—	—	—

Table 3. Local Ambient Air Quality Data

Monitoring Station	Unit	Averaging Time	Agency/ Method	Ambient Air Quality Standard	Measured Concentration by Year			Exceedances by Year		
					2016	*2017*	*2018*	*2016*	*2017*	*2018*
Coarse Particulate Matter (PM_{10})[a]										
Lake Elsinore	µg/m³	Maximum 24-hour concentration	California	50	—	—	—	—	—	—
			National	150	99	86	104	0	0	0
	µg/m³	Annual concentration	California	20	—	—	—	—	—	—
Fine Particulate Matter ($PM_{2.5}$)[b]										
Temecula	µg/m³	Maximum 24-hour concentration	National	35	18.9	16.7	—	—	—	—
	µg/m³	Annual concentration	California	12	9.8	6.5[a]	—	—	—	—
			National	12.0	9.6[a]	6.5[a]	—	—	—	—

Sources: CARB 2017a; EPA 2016d.

Notes: ppm = parts per million; — = not available; µg/m³ = micrograms per cubic meter.

Data taken from CARB iADAM (http://www.arb.ca.gov/adam) and EPA AirData (https://www.epa.gov/outdoor-air-quality-data) represent the highest concentrations experienced over a given year.

Exceedances of national and California standards are only shown for O_3 and particulate matter. Daily exceedances for particulate matter are estimated days because PM_{10} and $PM_{2.5}$ are not monitored daily. All other criteria pollutants did not exceed national or California standards during the years shown. There is no national standard for 1-hour ozone, annual PM_{10}, or 24-hour SO_2, nor is there a California 24-hour standard for $PM_{2.5}$.

Lake Elsinore Monitoring Station is located at 506 W Flint St, Lake Elsinore, California 92530.

Rubidoux Monitoring Station is located 5888 Mission Boulevard, Rubidoux, California 92509.

Temecula Monitoring Station is located at 12705 Pechanga Road, Temecula, California 92592.

[a] Measurements of PM_{10} and $PM_{2.5}$ are usually collected every 6 days and every 1 to 3 days, respectively. Number of days exceeding the standards is a mathematical estimate of the number of days concentrations would have been greater than the level of the standard had each day been monitored. The numbers in parentheses are the measured number of samples that exceeded the standard.

2.4 Significance Criteria and Methodology

2.4.1 Thresholds of Significance

The significance criteria used to evaluate the project impacts to air quality is based on the recommendations provided in Appendix G of the CEQA Guidelines. For the purposes of this air quality analysis, a significant impact would occur if the project would (14 CCR 15000 et seq.):

1. Conflict with or obstruct implementation of the applicable air quality plan.
2. Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard.
3. Expose sensitive receptors to substantial pollutant concentrations.
4. Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people.

Appendix G of the CEQA Guidelines (14 CCR 15000 et seq.) indicates that, where available, the significance criteria established by the applicable air quality management district or air pollution control district may be relied upon to determine whether the project would have a significant impact on air quality.

The SCAQMD has established Air Quality Significance Thresholds, as revised in March 2015, which set forth quantitative emission significance thresholds below which a project would not have a significant impact on ambient air quality under project-level and cumulative conditions. The quantitative air quality analysis provided herein applies the SCAQMD thresholds identified in Table 4 to determine the potential for the project to result in a significant impact under CEQA.

Table 4. South Coast Air Quality Management District Air Quality Significance Thresholds

Criteria Pollutants Mass Daily Thresholds		
Pollutant	*Construction (pounds per day)*	*Operation (pounds per day)*
VOCs	75	55
NO_x	100	55
CO	550	550
SO_x	150	150
PM_{10}	150	150
$PM_{2.5}$	55	55
Lead[a]	3	3
TACs and Odor Thresholds		
TACs[b]	Maximum incremental cancer risk ≥10 in 1 million Cancer Burden >0.5 excess cancer cases (in areas ≥1 in 1 million) Chronic and acute hazard index ≥1.0 (project increment)	
Odor	Project creates an odor nuisance pursuant to SCAQMD Rule 402	
Ambient Air Quality Standards for Criteria Pollutants[c]		
NO_2 1-hour average NO_2 annual arithmetic mean	SCAQMD is in attainment; project is significant if it causes or contributes to an exceedance of the following attainment standards: 0.18 ppm (state) 0.030 ppm (state) and 0.0534 ppm (federal)	
CO 1-hour average CO 8-hour average	SCAQMD is in attainment; project is significant if it causes or contributes to an exceedance of the following attainment standards: 20 ppm (state) and 35 ppm (federal) 9.0 ppm (state/federal)	
PM_{10} 24-hour average PM_{10} annual average	10.4 μg/m³ (construction)[d] 2.5 μg/m³ (operation) 1.0 μg/m³	
$PM_{2.5}$ 24-hour average	10.4 μg/m³ (construction)[d] 2.5 μg/m³ (operation)	

Source: SCAQMD 2019.
Notes: VOCs = volatile organic compounds; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM_{10} = coarse particulate matter; $PM_{2.5}$ = fine particulate matter; TAC = toxic air contaminant; SCAQMD = South Coast Air Quality Management District; NO_2 = nitrogen dioxide; ppm = parts per million; μg/m³ = micrograms per cubic meter.
Greenhouse gas emissions thresholds for industrial projects, as included in the April 2019 revision to the SCAQMD Air Quality Significance Thresholds, were not include included in Table 4 as they are addressed within the greenhouse gas emissions analysis and not the air quality study.

[a] The phaseout of leaded gasoline started in 1976. Since gasoline no longer contains lead, the project is not anticipated to result in impacts related to lead; therefore, it is not discussed in this analysis.
[b] TACs include carcinogens and noncarcinogens.
[c] Ambient air quality standards for criteria pollutants are based on SCAQMD Rule 1303, Table A-2, unless otherwise stated.
[d] Ambient air quality threshold are based on SCAQMD Rule 403.

The evaluation of whether the project would conflict with or obstruct implementation of the applicable air quality plan is based on the SCAQMD CEQA Air Quality Handbook (SCAQMD 1993), Chapter 12, Sections 12.2 and 12.3. The first criterion assesses if the project would result in an increase in the frequency or severity of existing air quality violations or cause or contribute to new violations, or delay the timely attainment of air quality standards of the interim emissions reductions specified in the AQMP, which is addressed in detail under in Section 2.5.2. The second criterion assesses if the project would exceed the assumptions in the AQMP or increments based on the year of project buildout and phase, as discussed further in Section 2.5.1.

To evaluate the potential for the project to violate any air quality standard or contribute substantially to an existing or projected air quality violation, this analysis applies the SCAQMD's construction and operational criteria pollutants mass daily thresholds, as shown in Table 4. A project would result in a substantial contribution to an existing air quality violation of the NAAQS or CAAQS for O_3, which is a nonattainment pollutant, if the project's construction or operational emissions would exceed the SCAQMD VOC or NO_x thresholds shown in Table 4. These emissions-based thresholds for O_3 precursors are intended to serve as a surrogate for an O_3 significance threshold (i.e., the potential for adverse O_3 impacts to occur). This approach is used because O_3 is not emitted directly (see the discussion of O_3 and its sources in Section 2.1.2, Pollutants and Effects), and the effects of an individual project's emissions of O_3 precursors (VOC and NO_x) on O_3 levels in ambient air cannot be determined through air quality models or other quantitative methods.

The assessment of the project's potential to expose sensitive receptors to substantial pollutant concentrations includes a localized significance threshold (LST) analysis, as recommended by the SCAQMD, to evaluate the potential of localized air quality impacts to sensitive receptors in the immediate vicinity of the project from construction. For project sites of 5 acres or less, the SCAQMD LST Methodology (2009) includes lookup tables that can be used to determine the maximum allowable daily emissions that would satisfy the localized significance criteria (i.e., the emissions would not cause an exceedance of the applicable concentration limits for NO_2, CO, PM_{10}, and $PM_{2.5}$) without performing project-specific dispersion modeling. Although the proposed development area of the site is greater than 5 acres (estimated to be 6.65 acres), the project would disturb less than 5 acres in 1 day, as discussed in detail in the following text, so it is appropriate to use the lookup tables for the LST evaluation.

The LST significance thresholds for NO_2 and CO represent the allowable increase in concentrations above background levels in the vicinity of a project that would not cause or contribute to an exceedance of the relevant ambient air quality standards, while the threshold for PM_{10} represents compliance with Rule 403 (Fugitive Dust). The LST significance threshold for $PM_{2.5}$ is intended to ensure that construction emissions do not contribute substantially to existing exceedances of the $PM_{2.5}$ ambient air quality standards. The allowable emission rates depend on the following parameters:

- Source-receptor area (SRA) in which the project is located
- Size of the project site
- Distance between the project site and the nearest sensitive receptor (e.g., residences, schools, hospitals)

The project site is located in SRA 26 (Temecula Valley). The SCAQMD provides guidance for applying the California Emissions Estimator Model (CalEEMod) to the LSTs. LST pollutant screening level concentration data is currently published for 1-, 2-, and 5-acre sites for varying distances. The maximum number of acres disturbed on the peak day was estimated using the Fact Sheet for Applying CalEEMod to Localized Significance Thresholds (SCAQMD 2011), which provides estimated acres per 8-hour day for crawler tractors, graders, rubber-tired dozers, and scrapers. Based on the SCAQMD guidance, and assuming an excavator can grade 0.5 acres per 8-hour day (similar to graders, dozers, and tractors), it was estimated that the maximum acres on the project site that would be disturbed by off-road equipment would be 4 acres per day (one excavator, one grader, one dozer, two tractors, and one loader during the grading phase). Because the total disturbed acreage would be 6.65 acres over approximately 64 days (0.1 acres graded per day), the estimate of 4 acres per day of disturbance is conservative. The SCAQMD lookup table value for a 4-acre site within SRA 26 was used.

The nearest sensitive-receptor land use (high school and residences) is located approximately 175 feet (53 meters) south of the project property boundary. As such, the LST receptor distance was assumed to be 164 feet (50 meters). The LST values from the SCAQMD lookup tables for SRA 26 (Temecula Valley) for an interpolated 4-acre project site and a receptor distance of 50 meters are shown in Table 5.

Table 5. Construction Localized Significance Thresholds for Source Receptor Area 26 (Temecula Valley)

Pollutant	Threshold (pounds per day)
NO_2	369
CO	2,333
PM_{10}	33
$PM_{2.5}$	9

Source: SCAQMD 2009.
Notes: NO_2 = nitrogen dioxide; CO = carbon monoxide; PM_{10} = coarse particulate matter; $PM_{2.5}$ = fine particulate matter.
Localized significance thresholds (LSTs) were determined based on the values for an interpolated 4-acre site at a distance of 50 meters from the nearest sensitive receptor.

The methodology to evaluate CO hotspots is detailed in Section 2.4.2.3. Similarly, the construction HRA methodology and assumptions are presented in Section 2.4.2.4. The construction HRA applies the SCAQMD risk thresholds presented in Table 4, which are a maximum incremental cancer risk greater than or equal to 10 in 1 million and a chronic hazard index greater than or equal to 1.0 (project increment). The CO hotspot assessment and construction HRA are evaluated under the potential for the project to expose sensitive receptors to substantial pollutant concentrations (Section 2.5.4), along with the LST analysis.

The potential for the project to result in other emissions, specifically an odor impact (Section 2.5.5) is based on the project's land use type and anticipated construction activity, and the potential for the project to create an odor nuisance pursuant to SCAQMD Rule 402.

2.4.2 Approach and Methodology

2.4.2.1 Construction Emissions

Emissions from the construction phase of the project were estimated using CalEEMod Version 2016.3.2. Construction scenario assumptions, including phasing, equipment mix, and vehicle trips, were based on information provided by the project applicant and CalEEMod default values when project specifics were not known.

For purposes of estimating project emissions, and based on information provided by the project applicant, it is assumed that construction of the project would commence in February 2021[5] and would last approximately 8 months, ending in September 2021. The analysis contained herein is based on the following assumptions (duration of phases is approximate):

- Site preparation: 1 week (February 2021–February 2021)
- Grading: 3 months (February 2021–May 2021)
- Trenching: 2 weeks (May 2021–May 2021)
- Building construction: 4 months and 2 weeks (May 2021–September 2021)
- Paving: 1 week (September 2021–September 2021)
- Architectural coating: 2 weeks (September 2021–September 2021)

The average vendor truck trips of 12 trucks per day for 12 weeks (including concrete trucks and pumpers) were based on applicant-provided data. Construction-worker estimates by construction phase were based on CalEEMod default data. Mass grading of 6.2 acres would include 75,000 cubic yards of cut and 40,000 cubic yards of fill, resulting in 35,000 cubic yards of soil for export. Assuming a haul truck capacity of 14 cubic yards per truck, earth-moving activities would result in approximately 2,500 round trips (5,000 one-way truck trips) during the grading phase. The excavated soil was assumed to be disposed of at the Scott Road Interchange located at a distance of 3.6 miles. CalEEMod default trip length values were used for the distances for all remaining construction-related trips.

The construction equipment mix and vehicle trips used for estimating the project-generated construction emissions are shown in Table 6.

[5] The analysis assumes a construction start date of February 2021, which represents the earliest date construction would initiate. Assuming the earliest start date for construction represents the worst-case scenario for criteria air pollutant and GHG emissions because equipment and vehicle emission factors for later years would be slightly less due to more stringent standards for in-use off-road equipment and heavy-duty trucks, as well as fleet turnover replacing older equipment and vehicles in later years.

Table 6. Construction Scenario Assumptions

Construction Phase	One-Way Vehicle Trips			Equipment		
	Average Daily Worker Trips	*Average Daily Vendor Truck Trips*	*Total Haul Truck Trips*	*Equipment Type*	*Quantity*	*Usage Hours*
Site Preparation	16	0	4	Rubber-Tired Dozers	1	8
				Rubber-Tired Loaders	1	8
				Tractors/Loaders/Backhoes	2	8
Grading	38	2	5,000	Excavators	1	8
				Graders	1	4
				Rubber-Tired Dozers	1	8
				Tractors/Loaders/Dozers	2	8
				Rubber-Tired Loaders	1	8
				Scrapers	3	8
Building Construction	96	4	236	Cranes	1	1
				Forklifts	2	8
				Generator Sets	12	1
				Tractors/Loaders/Backhoes	3	7
Trenching	6	0	0	Excavators	1	7
				Tractors/Loaders/Backhoes	2	7
Paving	22	144	0	Tractors/Loaders/Backhoes	2	8
				Paving Equipment	1	8
				Rollers	2	8
Architectural Coating	12	2	0	Air Compressors	2	8

Notes: See Appendix A for details.

As discussed in Section 1.5, Dust Control Strategies, the project would implement dust control strategies as a PDF. To reflect implementation of proposed dust control strategies, the following was assumed in CalEEMod:

- Water exposed area three times per day (61% reduction in PM_{10} and $PM_{2.5}$)
- As a surrogate for watering unpaved road three times per day, the "soil stabilizer for unpaved" option was used assuming a 61% reduction in PM_{10} and $PM_{2.5}$
- Limit vehicle travel on unpaved roads to 15 miles per hour
- Dirt and debris spilled onto paved surfaces at the project site and on the adjacent roadways shall be swept, vacuumed, and/or washed at the end of each workday (26% reduction in PM_{10} and $PM_{2.5}$)

Rock Crushing

Rock-crushing operations would be required for site preparation, the rock-crushing equipment are not listed in Table 6. Emissions associated with rock crushing were quantified in a separate calculation, since CalEEMod does not account for rock crushing. Emission factors were obtained from AP-42, Section 11.9.2, Crushed Stone Processing and Pulverized Mineral Processing (EPA 2004). For transfers to the feed hopper and stockpiles, the "drop" equation in Section 13.2.4, Aggregate Handling and Storage Piles, of AP-42 (EPA 2006) was used to derive

an emission factor. It was assumed that a total of 5,000 tons of rock would be processed over a 6.25-day period, or 800 tons of rock processed per day.

Based on the Permit to Construct, ID 180912, Application Number 588969, the rock-crushing equipment consists of a hopper, jaw crusher, screen, cone crusher, and conveyors, and the crushed rock would be stockpiled for future use. As specified in the permit condition, particulate emissions from the crushers, screens, and conveyors would be controlled with water sprays (SCAQMD 2018a).

The rock-crushing equipment would be powered by a 350-horsepower (hp), 156-hp, 325-hp, and 85-hp diesel-engine generator. The diesel-engine generators would operate up to 8 hours per day. The VOC, NO_x, CO, SO_x, PM_{10}, and $PM_{2.5}$ emissions from the diesel-engine generators were estimated using the off-road-engine load factor and emissions factors from the CalEEMod User's Guide for a typical generator operating in 2020 (the first year of construction). Rock-popping and rock-crushing emissions calculations are provided in Appendix A, CalEEMod Output Files.

2.4.2.2 Operational Emissions

Emissions from the operational phase of the project were estimated using CalEEMod Version 2016.3.2. Operational year 2021 was assumed consistent with completion of project construction.

The project would incorporate the PDFs summarized in Section 1.4. Criteria air pollutant emissions reductions were not quantified from implementation of **PDF-AQ/GHG-1**.

Area Sources

CalEEMod was used to estimate operational emissions from area sources, including emissions from consumer product use, architectural coatings, landscape maintenance equipment, and the gasoline dispensing facility. Emissions associated with natural gas usage in space heating and water heating are calculated in the building energy use module of CalEEMod, as described in the following text.

Consumer products are chemically formulated products used by household and institutional consumers, including detergents; cleaning compounds; polishes; floor finishes; cosmetics; personal care products; home, lawn, and garden products; disinfectants; sanitizers; aerosol paints; and automotive specialty products. Other paint products, furniture coatings, or architectural coatings are not considered consumer products (CAPCOA 2017). Consumer product VOC emissions are estimated in CalEEMod based on the floor area of nonresidential buildings and on the default factor of pounds of VOC per building square foot per day. For parking lot land uses, CalEEMod estimates VOC emissions associated with use of parking surface degreasers based on a square footage of parking surface area and pounds of VOC per square foot per day.

VOC off-gassing emissions result from evaporation of solvents contained in surface coatings such as paints and primers using during building maintenance. CalEEMod calculates the VOC evaporative emissions from application of nonresidential surface coatings based on the VOC emission factor, the building square footage, the assumed fraction of surface area, and the reapplication rate. The VOC emission factor is based on the VOC content of the surface coatings, and SCAQMD's Rule 1113 (Architectural Coatings) governs the VOC content for interior and exterior coatings. The model default reapplication rate of 10% of area per year is assumed. Consistent with CalEEMod defaults, it is assumed that the nonresidential surface area for painting equals 2.0

times the floor square footage, with 75% assumed for interior coating and 25% assumed for exterior surface coating (CAPCOA 2017).

Landscape maintenance includes fuel combustion emissions from equipment such as lawn mowers, rototillers, shredders/grinders, blowers, trimmers, chain saws, and hedge trimmers. The emissions associated from landscape equipment use are estimated based on CalEEMod default values for emission factors (grams per square foot of nonresidential building space per day) and number of summer days (when landscape maintenance would generally be performed) and winter days. For Riverside County, the average annual "summer" days are estimated to be 365 days; however, it is assumed that landscaping equipment would likely only operate during the week (not weekends), so operational days were assumed to be 250 days per year in CalEEMod (CAPCOA 2017).

Energy Sources

As represented in CalEEMod, energy sources include emissions associated with building electricity and natural gas usage. Electricity use would contribute indirectly to criteria air pollutant emissions; however, the emissions from electricity use are only quantified for GHGs in CalEEMod, since criteria pollutant emissions occur at the site of the power plant, which is typically off site.

CalEEMod default values for energy consumption were applied for the project analysis. The energy use from nonresidential buildings was calculated based on CalEEMod energy intensity values (natural gas usage per square foot per year) from the California Commercial End-Use Survey database.

Mobile Sources

Mobile sources for the project would primarily be motor vehicles (automobiles, light-duty trucks, and heavy-duty delivery trucks) traveling to and from the project site. Motor vehicles may be fueled with gasoline, diesel, or alternative fuels. Based on the transportation impact analysis (TIA) prepared for the project by Trames Solutions Inc. (2020), the proposed development is anticipated to generate 4,433 employee, customer, and delivery primary trips, which was assumed for the daily trip rate.[6] The peak daily trip rate was conservatively assumed for the daily trip rate over 365 days per year. Emissions from the mobile sources during operation of the project were estimated using a spreadsheet-based model and emission factors from the CARB EMFAC2017 and EPA AP-42 factors for paved road dust generation. The CalEEMod default trip lengths for delivery, customer, and employee trip lengths were assumed. Vehicle emissions occur during startup, operation (running), and idling, as well as from evaporative losses when the engines are resting. The emissions factors for trucks and passenger vehicles were determined using EMFAC2017, which generates emissions factors—expressed in grams per mile, grams per trip, and grams per vehicle per day—for the fleet in a class of motor vehicles within a county for a particular study year. For this analysis, Riverside County was selected for the region and calendar year 2021 was selected to represent the project operational start year.

[6] The trip rates expected to be generated by the project were estimated using Institute of Transportation Engineers Trip Generation Manual, 9th Edition, for the tire store; shopping center; high turnover sit-down restaurant; fast food with drive through; and bank with drive through land use categories (Institute of Transportation Engineers Code 848, 820, 932, 934, and 912, respectively) which accounts for "an integrated group of commercial establishments", as it is proposed for the site. The trip rate expected to be generated by the automobile parts and service center land use was estimated using Institute of Transportation Engineers Trip Generation Manual, 10th Edition.

A composite, or weighted-average, emissions factor was developed for project vehicle types in EMFAC2017 is anticipated to be representative of the project vehicle type. The composite emission factors are weighted by vehicle miles traveled (VMT), population, or trips, depending on the emissions process, which is the physical mechanism that results in the emissions of a pollutant. For customer and employee vehicles, the composite emission factor represents the weighted average emission rate for passenger vehicles, light-duty trucks, motorcycles, motor homes, buses, and a composite mix of gasoline, diesel-fueled, and electric vehicles. All delivery trucks were assumed to be a mix of diesel-fueled heavy-heavy-duty and medium-heavy-duty trucks.

Project delivery truck idling would be limited to 5 minutes in accordance with CARB's adopted Airborne Toxic Control Measure; however, for modeling purposes, it was conservatively assumed that the delivery trucks would idle for 15 minutes at the loading dock and prior to exiting the project site. Transport refrigeration units are designed to maintain the temperature inside delivery truck trailers. Electric plug-ins would be provided at the loading docks for the delivery trucks; thus, each transport refrigeration unit was assumed to operate for 30 minutes per visit. Based on data from the applicant, the project would generate 21 truck delivery trips per week, 7 of which would be equipped with transport refrigeration units. All deliveries would occur Monday through Friday.

2.4.2.3 Carbon Monoxide Hotspots

Mobile source impacts occur on two scales of motion. Regionally, project-related travel would add to regional trip generation and increase the VMT within the local airshed and the SCAB. Locally, project-generated traffic would be added to the City's roadway system near the project site. If such traffic occurs during periods of poor atmospheric ventilation, is composed of a large number of vehicles "cold-started" and operating at pollution-inefficient speeds, and is operating on roadways already crowded with non-project traffic, there is a potential for the formation of microscale CO hotspots in the area immediately around points of congested traffic. Because of continued improvement in vehicular emissions at a rate faster than the rate of vehicle growth and/or congestion, the potential for CO hotspots in the SCAB is steadily decreasing.

Projects contributing to adverse traffic impacts may result in the formation of CO hotspots. The potential for CO hotspots is evaluated based on the results of the TIA (Trames Solutions Inc. 2020) and the California Department of Transportation (Caltrans) Institute of Transportation Studies Transportation Project-Level Carbon Monoxide Protocol (CO Protocol) (Caltrans 1997) was followed. For projects located within an area designated as attainment or unclassified under the CAAQS or NAAQS, the CO Protocol identifies screening criteria for consideration. The first screening criteria focuses on projects that are likely to worsen air quality, which would occur if (a) the project significantly increases the percentage of vehicles operating in cold-start mode (greater than 2%), (b) the project significantly increases traffic volumes (greater than 5%), and/or (c) the project worsens traffic flow. In addition to consideration of whether the project would worsen air quality, CO hotspots are typically evaluated when (1) the level of service (LOS) of an intersection or roadway decreases to LOS E or worse; (2) signalization and/or channelization is added to an intersection; and (3) sensitive receptors such as residences, schools, and hospitals are located in the vicinity of the affected intersection or roadway segment. CO hotspots are further discussed in Section 2.5.3.

2.4.2.4 Construction Health Risk Assessment

An HRA was performed to evaluate potential health risk associated with construction of the project. The following discussion summarizes the dispersion modeling and HRA methodology; supporting construction HRA documentation, including detailed assumptions, is presented in Appendix B.

For risk assessment purposes, PM_{10} in diesel exhaust is considered DPM, originating mainly from off-road equipment operating at a defined location for a given length of time at a given distance from sensitive receptors. Less-intensive, more-dispersed emissions result from on-road vehicle exhaust (e.g., heavy-duty diesel trucks). For the construction HRA, the CalEEMod scenario for the project was adjusted to reduce diesel truck one-way trip distances to 1,000 feet to estimate emissions from truck pass-by at proximate receptors.

The air dispersion modeling methodology was based on generally accepted modeling practices of SCAQMD (SCAQMD 2018b; SCAQMD 2017b). Air dispersion modeling was performed using the EPA's American Meteorological Society/Environmental Protection Agency Regulatory Model (AERMOD) Version 19191 modeling system (computer software) with the Lakes Environmental Software implementation/user interface, AERMOD View Version 9.8.3. The HRA followed the Office of Environmental Health Hazard Assessment 2015 guidelines (OEHHA 2015) and SCAQMD guidance to calculate the health risk impacts at all proximate receptors as further discussed below. The dispersion modeling included the use of standard regulatory default options. AERMOD parameters were selected consistent with the SCAQMD and EPA guidance and identified as representative of the project site and project activities. Based on the construction schedule of 8 hours per day, 5 days per week, the variable emission factor of 4.2 was applied (7:00 am to 4:00 pm with an hour break for lunch). Principle parameters of this modeling are presented in Table 7.

Table 7. American Meteorological Society/Environmental Protection Agency Regulatory Model Principle Parameters

Parameter	Details
Meteorological Data	AERMOD-specific meteorological data for the Lake Elsinore air monitoring station was used for the dispersion modeling. A 5-year meteorological data set from 2012 through 2016 was obtained from the SCAQMD in a preprocessed format suitable for use in AERMOD.
Urban versus Rural Option	Urban dispersion option was selected due to the developed nature of the project area and Riverside County population for year 2010 (2,189,641 persons) was input into AERMOD (SCAQMD 2018b).
Terrain Characteristics	The elevation of the site is 1,550 feet (472 meters) above sea level.
Elevation Data	Digital elevation data were imported into AERMOD and elevations were assigned to receptors and emission sources, as necessary. Digital elevation data were obtained through the AERMOD View in the United States Geological Survey's National Elevation Dataset format with a resolution of 1/3 degree (approximately 10 meters), consistent with the SCAQMD guidance (SCAQMD 2018b).

Table 7. American Meteorological Society/Environmental Protection Agency Regulatory Model Principle Parameters

Parameter	Details
Source Release Characterizations	Air dispersion modeling of DPM emissions was conducted assuming the equipment would operate in accordance with the modeling scenario estimated in CalEEMod (Appendix A). The construction equipment DPM emissions were modeled as a line of adjacent volume sources across the project site to represent project construction with a release height of 5 meters, plume height of 2.33 meters, and plume width of 11.63 meters (SCAQMD 2008; EPA 2004). On-site truck travel was modeled as lines of adjacent volume sources, and based on EPA methodology, the modeled sources would result in a release height of 3.4 meters, a plume height of 3.16 meters, and a plume width of 3.12 meters (EPA 2015). The 350 hp and 325 hp diesel-engine generators were modeled as a point source with a stack height of 8.2 feet, inside stack diameter of 5.3 inches, stack temperature of 931°F, and exhaust flow rate of 1,829 standard cubic feet per minute (scfm). The 156 hp diesel-engine generator was modeled as a point source with a stack height of 7.4 feet, inside stack diameter of 4.1 inches, stack temperature of 899°F, and exhaust flow rate of 779 scfm. The 85 hp diesel-engine generators diesel-engine generators was modeled as a point source with a stack height of 7.1 feet, inside stack diameter of 4.6 inches, stack temperature of 992°F, and exhaust flow rate of 468 scfm (SBCAPCD 2019).

Notes: AERMOD = American Meteorological Society/Environmental Protection Agency Regulatory Model; SCAQMD = South Coast Air Quality Management District; DPM = diesel particulate matter; CalEEMod = California Emissions Estimator Model; EPA = U.S. Environmental Protection Agency; hp = horsepower.
See Appendix B.

Regarding receptors, the construction scenario used a 2-kilometer by 2-kilometer Cartesian receptor grid with 100-meter spacing to establish the impact area and evaluate locations of maximum health risk impact. The construction scenario also used discrete receptors positioned at specific locations to evaluate the maximally exposed sensitive receptor. Discrete receptors included Vista Murrieta High School and residences located approximately 175 feet to the south.

The health risk calculations were performed using the Hotspots Analysis and Reporting Program Version 2 (HARP2) Air Dispersion and Risk Tool (dated 19121). AERMOD was run with all sources emitting unit emissions (1 gram per second) to obtain the necessary input values for HARP2. The line of volume sources was partitioned evenly based on the 1 gram per second emission rate. The ground-level concentration plot files were then used to estimate the long-term cancer health risk to an individual, and the noncancer chronic health indices. There is no reference exposure level for acute health impacts from DPM, and, thus, acute risk was not evaluated.

Cancer risk is defined as the increase in probability of an individual developing cancer due to exposure to a carcinogenic compound, typically expressed as the increased chances in one million. Maximum individual cancer risk is the estimated probability of a maximally exposed individual potentially contracting cancer as a result of exposure to TACs over a period of 30 years for residential receptor locations. For the construction HRA, the TAC exposure period was assumed to be from a third trimester pregnancy to 8 months of age for residential receptor locations (i.e., the assumed duration of project construction), and the TAC exposure period was assumed to be from ages 14 through 18 for student receptors at the high school. The exposure pathway for DPM is inhalation only.

The SCAQMD has also established noncarcinogenic risk parameters for use in HRAs since some TACs increase noncancer health risk due to long-term (chronic) exposures and some TACs increase noncancer health risk due to short-term (acute) exposures. Chronic exposure is evaluated in the construction HRA. Noncarcinogenic risks are

quantified by calculating a hazard index, expressed as the ratio between the ambient pollutant concentration and its toxicity or reference exposure level, which is a concentration at or below which health effects are not likely to occur. The chronic hazard index is the sum of the individual substance chronic hazard indices for all TACs affecting the same target organ system. A hazard index of less than one means that adverse health effects are not expected.

The exposure duration for a resident from the ages of third trimester to 8 months is more conservative than a student aged 14 at a high school due to the increased age-sensitivity factors and breathing rates; therefore, the calculated residential maximum individual cancer risk and the residential chronic hazard index are the worst-case scenario for a resident and student.

2.5 Impact Analysis

2.5.1 Would the project conflict with or obstruct implementation of the applicable air quality plan?

As previously discussed, the project site is located within the SCAB under the jurisdiction of the SCAQMD, which is the local agency responsible for administration and enforcement of air quality regulations for the area. The SCAQMD has established criteria for determining consistency with the AQMP, currently the 2016 AQMP, in Chapter 12, Sections 12.2 and 12.3, of the SCAQMD CEQA Air Quality Handbook (SCAQMD 1993). The criteria are as follows (SCAQMD 1993):

- **Consistency Criterion No. 1:** The proposed project will not result in an increase in the frequency or severity of existing air quality violations or cause or contribute to new violations, or delay the timely attainment of air quality standards of the interim emissions reductions specified in the AQMP.
- **Consistency Criterion No. 2:** The proposed project will not exceed the assumptions in the AQMP or increments based on the year of project buildout and phase.

Consistency Criterion No. 1

Section 2.5.2 evaluates the project's potential impacts regarding CEQA Guidelines Appendix G Threshold 2 (the project's potential to violate any air quality standard or contribute substantially to an existing or projected air quality violation impact analysis). As discussed in Section 2.5.2, the project would exceed the SCAQMD significance threshold for NO_x during construction. Therefore, the project would result in an increase in the frequency or severity of existing air quality violations. Because the project would result in an increase in the frequency and severity of existing air quality violations with mitigation, the project would conflict with Consistency Criterion No. 1 of the SCAQMD CEQA Air Quality Handbook.

Consistency Criterion No. 2

While striving to achieve the NAAQS for O_3 and $PM_{2.5}$ and the CAAQS for O_3, PM_{10}, and $PM_{2.5}$ through a variety of air quality control measures, the 2016 AQMP also accommodates planned growth in the SCAB. Projects are considered to be consistent with, and not conflicting with or obstructing the implementation of, the AQMP if the

growth in socioeconomic factors (e.g., population, employment) is consistent with the underlying regional plans used to develop the AQMP (per Consistency Criterion No. 2 of the SCAQMD CEQA Air Quality Handbook).

The SCAQMD primarily uses demographic growth forecasts for various socioeconomic categories (e.g., population, housing, employment by industry) developed by the SCAG for its RTP/SCS (SCAG 2016), which is based on general plans for cities and counties in the SCAB, for the development of the AQMP emissions inventory (SCAQMD 2017a).[7] The SCAG 2016 RTP/SCS and associated Regional Growth Forecast are generally consistent with the local plans; therefore, the 2016 AQMP is generally consistent with local government plans. The City General Plan Land Use Map designates the project site as Commercial (City of Murrieta 2011b). The City's Zoning Map shows the site as being zoned Regional Commercial (City of Murrieta 2014). The project would be consistent with the current zoning and land use designation. The project would add 20 full-time employees. Accordingly, the project would meet Consistency Criterion No. 2 of the SCAQMD CEQA Air Quality Handbook.

Therefore, implementation of the project would not result in a conflict with, or obstruct implementation of, the applicable air quality plan (i.e., the 2016 AQMP). Accordingly, the project would meet Consistency Criterion No. 2 of the SCAQMD CEQA Air Quality Handbook.

Summary

As described previously, the project would result in an increase in the frequency and severity of existing air quality violations and would conflict with Consistency Criterion No. 1. However, implementation of the project would not exceed the demographic growth forecasts in the SCAG 2016 RTP/SCS; therefore, the project would also be consistent with the SCAQMD 2016 AQMP, which based future emission estimates on the SCAG 2016 RTP/SCS. Thus, the project would not conflict with Consistency Criterion No. 2. The project would potentially exceed the SCAQMD significance threshold for NO_x during construction, and thus possibly conflict with Consistency Criterion No. 1; therefore, impacts related to the project's potential to conflict with or obstruct implementation of the applicable air quality plan would be **potentially significant**.

Mitigation Measures

MM-AQ-1, as described in Section 2.5.2, would be implemented.

Level of Significance After Mitigation

Construction emissions would be reduced to below SCAQMD's thresholds with implementation of **MM-AQ-1**. Thus, impacts would be **less than significant**.

[7] Information necessary to produce the emission inventory for the SCAB is obtained from the SCAQMD and other governmental agencies, including CARB, Caltrans, and SCAG. Each of these agencies is responsible for collecting data (e.g., industry growth factors, socioeconomic projections, travel activity levels, emission factors, emission speciation profile, and emissions) and developing methodologies (e.g., model and demographic forecast improvements) required to generate a comprehensive emissions inventory. SCAG incorporates these data into their Travel Demand Model for estimating/projecting VMT and driving speeds. SCAG's socioeconomic and transportation activities projections in their 2016 RTP/SCS are integrated in the 2016 AQMP (SCAQMD 2017a).

2.5.2 Would the project result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?

Construction Emissions

Construction of the project would result in the temporary addition of pollutants to the local airshed caused by on-site sources (i.e., off-road construction equipment, rock crushing, soil disturbance, and VOC off-gassing) and off-site sources (i.e., on-road haul trucks, vendor trucks, and worker vehicle trips). Construction emissions can vary substantially from day to day, depending on the level of activity, the specific type of operation, and for dust, the prevailing weather conditions. Therefore, such emission levels can only be approximately estimated with a corresponding uncertainty in precise ambient air quality impacts.

As discussed in Section 2.4.2.1, Construction Emissions, criteria air pollutant emissions associated with temporary construction activity were quantified using CalEEMod. Construction emissions were calculated for the estimated worst-case day over the construction period associated with each phase and reported as the maximum daily emissions estimated during construction (year 2021). Construction schedule assumptions, including phase type, duration, and sequencing, were based on information provided by the project applicant and are intended to represent a reasonable scenario based on the best information available. Default values provided in CalEEMod were used where detailed project information was not available.

Implementation of the project would generate air pollutant emissions from entrained dust, off-road equipment, vehicle emissions, architectural coatings, and asphalt pavement application. Entrained dust results from the exposure of earth surfaces to wind from the direct disturbance and movement of soil, resulting in PM_{10} and $PM_{2.5}$ emissions. The project would implement various dust control strategies (**PDF-AQ-1**) and would be required to comply with SCAQMD Rule 403 to control dust emissions generated during the grading activities. Proposed construction practices that would be employed to reduce fugitive dust emissions include watering of the active sites and unpaved roads three times per day depending on weather conditions and restricting vehicle speed on unpaved roads to 15 miles per hour. Internal combustion engines used by construction equipment, vendor trucks (i.e., delivery trucks), and worker vehicles would result in emissions of VOCs, NO_x, CO, PM_{10}, and $PM_{2.5}$. The application of architectural coatings, such as exterior application/interior paint and other finishes, and application of asphalt pavement would also produce VOC emissions; however, the contractor is required to procure architectural coatings from a supplier in compliance with the requirements of SCAQMD's Rule 1113 (Architectural Coatings).

Emissions associated with rock crushing and associated diesel-engine generators were quantified in a separate calculation, since CalEEMod does not account for rock crushing.

Table 8 presents the estimated maximum daily construction emissions generated during construction of the project. The values shown are the maximum summer or winter daily emissions results from CalEEMod and include estimated emissions from rock crushing activities, which were estimated outside of CalEEMod. Details of the emission calculations are provided in Appendix A.

Table 8. Estimated Maximum Daily Construction Criteria Air Pollutant Emissions – Unmitigated

Year	VOC	NO_x	CO	SO_x	PM_{10}	$PM_{2.5}$
	pounds per day					
Construction						
2021	34.33	74.82	46.13	0.21	5.11	2.28
Rock Crushing						
2021	2.85	27.71	18.70	0.06	2.00	1.17
Total						
2021	37.19	102.53	64.83	0.27	7.11	3.45
SCAQMD Threshold	*75*	*100*	*550*	*150*	*150*	*55*
Threshold Exceeded?	**No**	**Yes**	**No**	**No**	**No**	**No**

Notes: VOC = volatile organic compound; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM_{10} = coarse particulate matter; $PM_{2.5}$ = fine particulate matter; SCAQMD = South Coast Air Quality Management District.
See Appendix A for complete results.
The values shown are the maximum summer or winter daily emissions results from CalEEMod, including rock-crushing activities estimated outside of CalEEMod. These emissions reflect CalEEMod "mitigated" output, which accounts for compliance with SCAQMD Rule 1113 (Architectural Coatings) and implementation of the project's fugitive dust control strategies, including watering of the project site and unpaved roads three times per day, and restricting vehicle speed on unpaved roads to 15 miles per hour.

As shown in Table 8, daily construction emissions would not exceed the SCAQMD significance thresholds for VOC, CO, SO_x, PM_{10}, or $PM_{2.5}$ during construction in 2021. However, the daily construction emissions would exceed the SCAQMD significance thresholds for NO_x. Although construction-generated emissions would be temporary and would not represent a long-term source of criteria air pollutant emissions, impacts would be **potentially significant** and, thus, require mitigation.

Operational Emissions

The project proposes development of a new retail development. Operation of the project would generate VOC, NO_x, CO, SO_x, PM_{10}, and $PM_{2.5}$ emissions from mobile sources, including vehicle trips from customers, employees, and delivery trips; area sources, including the use of consumer products, architectural coatings for repainting, and landscape maintenance equipment; and energy sources, including combustion of fuels used for space and water heating and cooking appliances. As discussed in Section 2.4.2.2, Operational Emissions, pollutant emissions associated with long-term operations were quantified using CalEEMod. Project-generated mobile source emissions were calculated in a spreadsheet using EMFAC2017 based on project-specific trip rates. CalEEMod default values were used to estimate emissions from the project area and energy sources.

Table 9 presents the maximum daily area, energy, and mobile source emissions associated with operation (year 2021) of the project. Operational year 2021 was assumed upon completion of construction. The values shown are the maximum summer or winter daily emissions results from CalEEMod. Details of the emission calculations are provided in Appendix A.

Table 9. Estimated Maximum Daily Operational Criteria Air Pollutant Emissions – Unmitigated

Emission Source	VOC	NO_x	CO	SO_x	PM_{10}	$PM_{2.5}$
	pounds per day					
Area	0.83	<0.01	0.02	0.00	<0.01	<0.01
Energy	0.08	0.70	0.59	<0.01	0.05	0.05
Mobile	5.66	18.09	115.51	0.32	30.42	7.63
Total	**6.57**	**18.79**	**116.12**	**0.32**	**30.47**	**7.68**
SCAQMD Threshold	*55*	*55*	*550*	*150*	*150*	*55*
Threshold Exceeded?	**No**	**No**	**No**	**No**	**No**	**No**

Notes: VOC = volatile organic compound; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM_{10} = coarse particulate matter; $PM_{2.5}$ = fine particulate matter; SCAQMD = South Coast Air Quality Management District; <0.01 = values reported are less than 0.01.
See Appendix A for complete results.
Totals may not sum due to rounding.
The values shown are the maximum summer or winter daily emissions results from the California Emissions Estimator Model (CalEEMod). These emissions reflect operational year 2021.

As shown in Table 9, the combined daily area, energy, and mobile source emissions would not exceed the SCAQMD operational thresholds for VOC, NO_x, CO, SO_x, PM_{10}, and $PM_{2.5}$. Thus, impacts associated with project-generated operational criteria air pollutant emissions would be **less than significant.**

Air pollution is largely a cumulative impact. The nonattainment status of regional pollutants is a result of past and present development, and the SCAQMD develops and implements plans for future attainment of ambient air quality standards. Based on these considerations, project-level thresholds of significance for criteria pollutants are relevant in the determination of whether a project's individual emissions would have a cumulatively significant impact on air quality.

In considering cumulative impacts from the project, the analysis must specifically evaluate a project's contribution to the cumulative increase in pollutants for which the SCAB is designated as nonattainment for the CAAQS and NAAQS. If a project's emissions would exceed the SCAQMD significance thresholds, it would be considered to have a cumulatively considerable contribution to nonattainment status in the SCAB. The basis for analyzing the project's cumulatively considerable contribution is if the project's contribution accounts for a significant proportion of the cumulative total emissions (i.e., it represents a "cumulatively considerable contribution" to the cumulative air quality impact) and consistency with the SCAQMD 2016 AQMP, which addresses the cumulative emissions in the SCAB.

As discussed in Section 2.3.1, South Coast Air Basin Attainment Designation, the SCAB has been designated as a national nonattainment area for O_3 and $PM_{2.5}$ and a California nonattainment area for O_3, PM_{10}, and $PM_{2.5}$. The nonattainment status is the result of cumulative emissions from various sources of air pollutants and their precursors within the SCAB, including motor vehicles, off-road equipment, and commercial and industrial facilities. Construction and operation of the project would generate VOC and NO_x emissions (which are precursors to O_3) and emissions of PM_{10} and $PM_{2.5}$. As indicated in Table 8, project-generated construction emissions would exceed the SCAQMD emission-based significance thresholds for NO_x. Project-generated operational emissions would not exceed the SCAQMD emission-based significance thresholds. As discussed in the analysis of the project's potential to conflict with or obstruct implementation of the applicable air quality plan (Section 2.5.1), the project would not conflict with the SCAQMD 2016 AQMP with mitigation.

Cumulative localized impacts would potentially occur if a construction project were to occur concurrently with another off-site project. Construction schedules for potential future projects near the project site are currently unknown; therefore, potential construction impacts associated with two or more simultaneous projects would be considered speculative.[8] However, future projects would be subject to CEQA and would require air quality analysis and, where necessary, mitigation if the project would exceed SCAQMD thresholds. Criteria air pollutant emissions associated with construction activity of future projects would be reduced through implementation of control measures required by the SCAQMD. Cumulative PM_{10} and $PM_{2.5}$ emissions would be reduced because all future projects would be subject to SCAQMD Rule 403 (Fugitive Dust), which sets forth general and specific requirements for all construction sites in the SCAQMD.

Based on the project-generated construction emissions of NO_x, the project would result in a cumulatively considerable increase in emissions of nonattainment pollutants. Impacts would be **potentially significant** and thus require mitigation.

Mitigation Measures

MM-AQ-1: To reduce the potential for criteria air pollutants, specifically oxides of nitrogen (NO_x), as a result of construction of the project, prior to the start of construction activities, the applicant, or its designee shall:

> Ensure that all 75 horsepower or greater diesel-powered equipment are powered with California Air Resources Board–certified Tier 4 Interim engines, except where the project applicant establishes to the satisfaction of the City of Murrieta (City) that Tier 4 Interim equipment is not available.
>
> An exemption from these requirements may be granted by the City in the event that the City is provided with sufficient evidence that equipment with the required tier is not reasonably available and corresponding reductions in criteria air pollutant emissions are achieved from other construction equipment. Before an exemption may be considered by the City, the project applicant shall be required to: (1) demonstrate that two construction fleet owners/operators in Riverside County were contacted and that those owners/operators confirmed Tier 4 Interim equipment could not be located within the Riverside County; and (2) demonstrate that the proposed replacement equipment has been evaluated using the California Emissions Estimator Model (CalEEMod) or other industry standard emission estimation method and documentation provided to the City to confirm the project-generated emissions do not exceed applicable South Coast Air Quality Management District mass daily thresholds of significance and localized significance thresholds.

Implementation of **MM-AQ-1** would result in mitigated construction emissions summarized in Table 10. The values shown are the maximum summer or winter daily emissions results from CalEEMod. Details of the emission calculations are provided in Appendix A.

[8] The CEQA Guidelines state that if a particular impact is too speculative for evaluation, the agency should note its conclusion and terminate discussion of the impact (14 CCR 15145). This discussion is nonetheless provided in an effort to show good-faith analysis and comply with CEQA's information disclosure requirements.

Table 10. Estimated Maximum Daily Construction Criteria Air Pollutant Emissions – Mitigated

Year	VOC	NO_x	CO	SO_x	PM_{10}	$PM_{2.5}$
	pounds per day					
Construction						
2021	33.20	69.77	49.68	0.21	4.30	1.38
Rock Crushing						
2021	2.85	27.71	18.70	0.06	2.00	1.17
Total						
2021	**36.06**	**97.48**	**68.38**	**0.27**	**6.30**	**2.55**
SCAQMD Threshold	*75*	*100*	*550*	*150*	*150*	*55*
Threshold Exceeded?	**No**	**No**	**No**	**No**	**No**	**No**

Notes: VOC = volatile organic compound; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM_{10} = coarse particulate matter; $PM_{2.5}$ = fine particulate matter; SCAQMD = South Coast Air Quality Management District.
See Appendix A for complete results.
The values shown are the maximum summer or winter daily emissions results from CalEEMod including rock-crushing activities estimated outside of CalEEMod. These emissions reflect CalEEMod "mitigated" output, which accounts for compliance with SCAQMD Rule 1113 (Architectural Coatings) implementation of the project's fugitive dust control strategies, including watering of the project site and unpaved roads three times per day, and restricting vehicle speed on unpaved roads to 15 miles per hour, and implementation of **Mitigation Measure (MM) AQ-1** which requires equipment over 75 horsepower to meet specific engine emission standards (Tier 4 Interim).

Level of Significance After Mitigation

Emissions associated with construction would be temporary, lasting approximately 8 months. As shown in Table 10, emissions would be reduced to below SCAQMD's threshold for NO_x following implementation of **MM-AQ-1**. Following implementation of **MM-AQ-1**, cumulative construction emissions would be **less than significant**.

2.5.3 Would the project expose sensitive receptors to substantial pollutant concentrations?

Localized Significance Thresholds Analysis

As discussed in Section 2.1.3, Sensitive Receptors, sensitive receptors are those individuals more susceptible to the effects of air pollution than the population at large. People most likely to be affected by air pollution include children, the elderly, and people with cardiovascular and chronic respiratory diseases. According to the SCAQMD, sensitive receptors include residences, schools, playgrounds, childcare centers, long-term healthcare facilities, rehabilitation centers, convalescent centers, and retirement homes (SCAQMD 1993). The closest off-site sensitive receptors to the project site include Vista Murrieta High School and residences located approximately 175 feet to the south.

An LST analysis has been prepared to determine potential impacts to nearby sensitive receptors during construction of the project. As indicated in the discussion of the thresholds of significance (Section 2.4), the SCAQMD also recommends the evaluation of localized NO_2, CO, PM_{10}, and $PM_{2.5}$ impacts as a result of construction activities to sensitive receptors in the immediate vicinity of the project site. The impacts were analyzed using methods consistent with those in the SCAQMD's Final Localized Significance Threshold Methodology (2009). According to the Final Localized Significance Threshold Methodology, "off-site mobile

emissions from the project should not be included in the emissions compared to the LSTs" (SCAQMD 2009). Hauling of soils and construction materials associated with the project construction are not expected to cause substantial air quality impacts to sensitive receptors along off-site roadways. Localized emissions from the trucks would be relatively brief in nature and would cease once the trucks pass through the main streets.

Construction activities associated with the project would result in temporary sources of on-site fugitive dust and construction equipment emissions. As discussed above, off-site emissions from vendor trucks, haul trucks, and worker vehicle trips are not included in the LST analysis. The maximum allowable daily emissions that would satisfy the SCAQMD localized significance criteria for SRA 26 are presented in Table 11 and compared to the maximum daily on-site construction emissions generated during the project.

Table 11. Localized Significance Thresholds Analysis for Project Construction

Maximum On-Site Emissions	NO_2	CO	PM_{10}	$PM_{2.5}$
	Pounds per Day			
Construction Emissions	28.80	32.26	2.10	1.21
SCAQMD LST	*369*	*2,333*	*33*	*9*
LST Exceeded?	**No**	**No**	**No**	**No**

Source: SCAQMD 2009.
Notes: NO_2 = nitrogen dioxide; CO = carbon monoxide; PM_{10} = coarse particulate matter; $PM_{2.5}$ = fine particulate matter; SCAQMD = South Coast Air Quality Management District; LST = localized significance threshold.
See Appendix A for complete results.
Localized significance thresholds are shown for an interpolated 4-acre project sites corresponding to a distance to a sensitive receptor of 50 meters.
These estimates implementation of the project's fugitive dust control strategies, including watering of the project site and unpaved roads three times per day, and restricting vehicle speed on unpaved roads to 15 miles per hour.
Greatest on-site NO_2, CO, PM_{10}, and $PM_{2.5}$ emissions are associated with the overlap between the grading and rock crushing phases from February 2021 through September 2021.

As shown in Table 11, construction activities would not generate emissions in excess of site-specific LSTs; therefore, localized construction impacts during construction of the project would be **less than significant**.

Valley Fever

As discussed above, valley fever is not highly endemic to the County, and within the County, the incidence rate in the project site is below the County average and the statewide average. Construction of the project would comply with SCAQMD Rule 403 (Fugitive Dust), which requires fugitive dust sources to implement best available control measures for all sources and prohibits all forms of visible particulate matter from crossing any property line. SCAQMD Rule 403 is intended to reduce PM_{10} emissions from any transportation, handling, construction, or storage activity that has the potential to generate fugitive dust. The closest off-site sensitive receptors to the project site include Vista Murrieta High School and residences located approximately 175 feet to the south. Based on the low incidence rate of coccidioidomycosis on the project site and in the County, and with the project's implementation of dust control strategies included in **PDF-AQ-1**, it is not anticipated that earth-moving activities during project construction would result in exposure of nearby sensitive receptors to valley fever. Therefore, the project would have a **less-than-significant impact** with respect to valley fever exposure for sensitive receptors.

Health Impacts of Carbon Monoxide

As explained in Section 2.4.2.3, Carbon Monoxide Hotspots, to verify that the project would not cause or contribute to a violation of the CO standard, a screening evaluation of the potential for CO hotspots was conducted based on the TIA (Trames Solutions Inc. 2020) results and the CO Protocol (Caltrans 1997).

The proposed project's TIA evaluated eight intersections. As determined by the TIA, the McElwain Road and Clinton Keith Road and Whitewood Road and Clinton Keith Road intersections under the Cumulative Year (2021) would deteriorate from LOS C to D as a result of the proposed project, and therefore require a CO hotspot analysis.

Operational year 2021 was assumed for the TIA; thus, the CO analysis was prepared for the operational year consistent with the TIA. The potential impact of the project on local CO levels was assessed at this intersection with the Caltrans CL4 interface based on the California LINE Source Dispersion Model (CALINE4), which allows microscale CO concentrations to be estimated along each roadway corridor or near intersections (Caltrans 1998a).

The emissions factor represents the weighted average emissions rate of the local SCAB vehicle fleet expressed in grams per mile per vehicle. Consistent with the TIA, emissions factors for 2021 were used for the analysis, consistent with buildout year specified in the TIA. Emissions factors for 2021 were predicted by EMFAC2017 based on a 5 mph average speed for all of the intersections for approach and departure segments. The hourly traffic volume anticipated to travel on each link, in units of vehicles per hour, was based on the traffic report. Modeling assumptions are outlined in Appendix A.

Four receptor locations at the McElwain Road and Clinton Keith Road intersection were modeled to determine CO ambient concentrations. A receptor was assumed on the sidewalk at each corner of the modeled intersections, for a total of four receptors adjacent to the intersection, to represent the future possibility of extended outdoor exposure. CO concentrations were modeled at these locations to assess the maximum potential CO exposure that could occur in 2021. A receptor height of 5.9 feet (1.8 meters) was used in accordance with Caltrans recommendations for all receptor locations (Caltrans 1998b).

The SCAQMD provides projected future concentrations of CO emissions to assist the CEQA practitioner with a CO Hotspots Analysis. The projected future 1-hour CO background concentration of 5.1 parts per million for 2021 for the Lake Elsinore monitoring station was assumed in the CALINE4 model for 2021 (SCAQMD 2002). The maximum CO concentration measured at the Lake Elsinore monitoring station over the last 3 years was 1.2 parts per million, which was measured in 2016 and 2017; as such, the SCAQMD projected 1-hour CO ambient concentration of 5.1 parts per million is a conservative assumption. The 8-hour average CO concentration was added to the SCAQMD projected 8-hour CO ambient concentration of 3.2 parts per million for 2020 from the Lake Elsinore monitoring station to compare to the CAAQS (SCAQMD 2002).

The CALINE4 predicted CO concentrations are shown in Table 12. Model input and output data are provided in Appendix A.

Table 12. CALINE4 Predicted Carbon Monoxide Concentrations

Intersection	Maximum Modeled Carbon Monoxide Project Plus Ambient Impact (ppm)	
	1-hour	*8-hour*
McElwain Road/Clinton Keith Road	5.9	4.13
Whitewood Road/Clinton Keith Road	5.5	7.75

Source: Caltrans 1998a.
Notes: ppm = parts per million.

As shown in Table 12, the maximum CO concentration predicted for the 1-hour averaging period at the studied intersection would be 5.9 parts per million (ppm), which is below the 1-hour CO CAAQS of 20 ppm (CARB 2016c). The maximum predicted 8-hour CO concentration of 4.13 ppm at the studied intersections would be below the 8-hour CO CAAQS of 9.0 ppm (CARB 2016c). Neither the 1-hour nor 8-hour CAAQS would be equaled or exceeded at any of the intersections studied. Accordingly, the project would not cause or contribute to violations of the CAAQS, and would not result in exposure of sensitive receptors to localized high concentrations of CO. As such, impacts would be **less than significant** to sensitive receptors with regard to potential CO hotspots resulting from project contribution to cumulative traffic-related air quality impacts, and no mitigation is required.

Health Impacts of Toxic Air Contaminants

As discussed in Section 2.4.2.4, an HRA was performed to estimate the maximum individual cancer risk and the chronic hazard index for residential receptors as a result of project construction. Results of the construction HRA are presented in Table 13.

Table 13. Construction Health Risk Assessment Results – Unmitigated

Impact Parameter	Units	Project Impact	CEQA Threshold	Level of Significance
Maximum Individual Cancer Risk – Residential	Per Million	2.90	10	Less than Significant
Chronic Hazard Index – Residential	Index Value	0.005	1.0	Less than Significant

Source: SCAQMD 2019.
Note: CEQA = California Environmental Quality Act.
See Appendix B.

As shown in Table 13, project construction activities would result in a residential maximum individual cancer risk of 2.90 in 1 million, which is below the significance threshold of 10 in 1 million. Project construction would also result in a residential chronic hazard index of 0.005, which is below the 1.0 significance threshold. The project construction TAC health risk impacts would be **less than significant**.

Although the cancer risk and chronic hazard index are below SCAQMD significance thresholds from project construction, the HRA results from the mitigated scenario are also included. With implementation of MM-AQ-1, mitigated project construction would result in potential cancer risk and chronic health risk at the maximally exposed residential receptor would be 0.17 in 1 million and 0.0003, respectively, which are below the applicable SCAQMD thresholds.

After construction is completed, there would be no long-term source of TAC emissions during operation. The delivery trucks and trucks equipped with transport refrigeration units would be minimal; furthermore, gasoline vehicles from employees and customers would not be a contributor of TAC emissions. Therefore, operational health risk impacts would be **less than significant**.

Health Effects of Other Criteria Air Pollutants

Construction of the project would result in emissions that would exceed the SCAQMD threshold for NO_x. Project construction and operation would not exceed SCAQMD thresholds for VOC, CO, SO_x, PM_{10}, $PM_{2.5}$, or NO_x for operation.

The California Supreme Court decision on December 24, 2018, *Sierra Club v. County of Fresno* (Friant Ranch), requires projects with significant air quality impacts to "relate the expected adverse air quality impacts to likely health consequences or explain why it is not feasible at the time of drafting to provide such an analysis, so that the public may make informed decisions regarding the costs and benefits of the project."

In requiring a health risk type analysis for criteria air pollutants, it is important to understand how O_3 is formed, dispersed and regulated. Ground-level O_3 (smog) is not directly emitted into the air, but is instead formed when precursor pollutants such as VOCs or NO_x are emitted into the atmosphere and undergo complex chemical reactions in the process of sunlight (SJVAPCD 2015, p.4). Once formed, O_3 can be transported long distances by wind (EPA 2020a). Because of the complexity of O_3 formation, a specific tonnage amount of VOCs or NO_x emitted in a particular area does not equate to a particular concentration of O_3 in that area (SJVAPCD 2015). In fact, even rural areas that have relatively low tonnages of emissions of VOCs or NO_x can have high levels of O_3 concentrations simply due to wind transport and other meteorological conditions, such as temperature inversion and high-pressure systems. Conversely, areas that have substantially more VOCs or NO_x emissions could experience lower concentrations of O_3 simply because sea breezes disperse the emissions (SJVAPCD 2007).

The lack of link between the tonnage of precursor pollutants and the concentration of O_3 formed is important because it is not necessarily the tonnage of precursor pollutants that causes human health effects; rather, it is the concentration of resulting O_3 that causes these effects (SJVAPCD 2015). Indeed, the ambient air quality standards, which are statutorily required to be set by the EPA at levels that are requisite to protect the public health, are established as concentrations of O_3 and not as tonnages of their precursor pollutants (EPA 2020b). Because the ambient air quality standards are focused on achieving a particular concentration region-wide, the tools and plans for attaining the ambient air quality standards are regional in nature.

The computer models (e.g., Community Multiscale Air Quality modeling platform)[9] used to simulate and predict an attainment date for O_3 are based on regional inventories of precursor pollutants and meteorology within an air basin. At a very basic level, the models simulate future O_3 levels based on predicted changes in precursor emissions basin-wide. These computer models are not designed to determine whether the emissions generated by an individual development project will affect the date that the air basin attains the ambient air quality standards. Instead, the models help inform regional planning strategies based on the extent that all of the emission-generating sources within the air basin must be controlled in order to reach attainment (SJVAPCD 2015).

[9] The SCAQMD 2016 AQMP O_3 attainment demonstration was developed using the EPA-recommended Community Multiscale Air Quality (version 5.0.2) modeling platform with SAPRC07 chemistry, and the Weather Research and Forecasting Model (version 3.6) meteorological fields.

The SCAQMD and the San Joaquin Valley Air Pollution Control District have indicated that it is not feasible to quantify project-level health impacts based on existing modeling (SCAQMD 2015; SJVAPCD 2015). Even if a metric could be calculated, it would not be reliable because the models are equipped to model the impact of all emission sources in an air basin on attainment and would likely not yield meaningful information or a measurable increase in O_3 concentrations sufficent to accurately quantify ozone-related health imacts for an individual project.

In the case of the proposed project, regional construction emissions exceed the SCAQMD's recommended daily significance thresholds for NO_x during construction. However, this does not mean that one can determine the concentration of O_3 that will be created at or near the project site on a particular day or month of the year, or the specific human health impacts that may occur from such exceedance. Meteorology, the presence of sunlight, and other complex chemical factors all combine to determine the ultimate concentrations and locations of O_3.

Running the regional-scale photochemical grid model used for predicting O_3 attainment with the emissions from the project (which equates to approximately a very small fraction of the VOC and NO_x in the air basin) is not likely to yield meaningful information regarding a measurable increase in O_3 concentrations sufficient to accurately quantify the project's ozone-related health impacts. Any identified modeled increase in O_3 concentrations would not be accurate, as it would be well within the error margins of such models. Similary, it would also not be feasible to identify the project's impact on the days of nonattainment per year. Based on this information, a general description of the adverse health impacts resulting from the pollutants at issue is all that can be meaningfully provided at this time. Please see the above description of general adverse health impacts resulting from NO_x and VOCs.

CO tends to be a localized impact associated with congested intersections. The associated potential for CO hotspots were discussed previously and are determined to be a less-than-significant impact. Thus, the project's CO emissions would not contribute to significant health effects associated with this pollutant.

Construction and operation of the project would also not exceed regional thresholds for PM_{10} or $PM_{2.5}$, would not contribute to exceedances of the NAAQS or CAAQS for particulate matter, and would not obstruct the SCAB from coming into attainment for these pollutants. The project would also not result in substantial DPM emissions during construction and operation and, therefore, would not result in significant health effects related to DPM exposure with implementation of **MM-AQ-1**. Additionally, the project would implement dust control strategies **PDF-AQ-1** and be required to comply with SCAQMD Rule 403, which limits the amount of fugitive dust generated during construction. Due to the minimal contribution of particulate matter during construction and operation, the project is not anticipated to result in health effects associated with PM_{10} or $PM_{2.5}$. Furthermore, the project would reduce particulate matter emissions with implementation of **MM-AQ-1**.

In summary, because construction of the project could result in exceedances of the SCAQMD significance thresholds for NO_x, the potential health effects associated with criteria air pollutants, specifically O_3, are considered potentially significant. Notably, there are numerous scientific and technological complexities associated with correlating criteria air pollutant emissions from an individual project to specific health effects or potential additional nonattainment days, and there are currently no modeling tools that could provide reliable and meaningful additional information regarding health effects from criteria air pollutants generated by individual projects.

Mitigation Measures

MM-AQ-1, as described in Section 2.5.1, would be implemented.

Level of Significance After Mitigation

Implementation of **MM-AQ-1** would reduce emissions from construction to levels below SCAQMD thresholds. Thus, site-specific impacts during construction and to other criteria air pollutants would be **less than significant**.

2.5.4 Would the project result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

The occurrence and severity of potential odor impacts depends on numerous factors. The nature, frequency, and intensity of the source; the wind speeds and direction; and the sensitivity of receiving location each contribute to the intensity of the impact. Although offensive odors seldom cause physical harm, they can be annoying and cause distress among the public and generate citizen complaints.

Odors would be potentially generated from vehicles and equipment exhaust emissions during construction of the project. Potential odors produced during construction would be attributable to concentrations of unburned hydrocarbons from tailpipes of construction equipment, architectural coatings, and asphalt pavement application. Such odors would disperse rapidly from the project site and generally occur at magnitudes that would not affect substantial numbers of people. Therefore, impacts associated with odors during construction would be **less than significant**.

Land uses and industrial operations associated with odor complaints include agricultural uses, wastewater treatment plants, food-processing plants, chemical plants, composting, refineries, landfills, dairies, and fiberglass molding (SCAQMD 1993). The project entails construction of retail buildings and associated parking and would not result in the creation of a land use that is commonly associated with odors. Therefore, project operations would result in a **less-than-significant impact** associated with other emissions (such as those leading to odors).

Mitigation Measures

No mitigation is required.

Level of Significance After Mitigation

Impacts would be less than significant without mitigation.

3 Greenhouse Gas Emissions

3.1 Environmental Setting

3.1.1 Climate Change Overview

Climate change refers to any significant change in measures of climate, such as temperature, precipitation, or wind patterns, lasting for an extended period of time (i.e., decades or longer). The Earth's temperature depends on the balance between energy entering and leaving the planet's system. Many factors, both natural and human, can cause changes in Earth's energy balance, including variations in the sun's energy reaching Earth, changes in the reflectivity of Earth's atmosphere and surface, and changes in the greenhouse effect, which affects the amount of heat retained by Earth's atmosphere (EPA 2017a).

The greenhouse effect is the trapping and build-up of heat in the atmosphere (troposphere) near the Earth's surface. The greenhouse effect traps heat in the troposphere through a threefold process as follows: Short-wave radiation emitted by the Sun is absorbed by the Earth, the Earth emits a portion of this energy in the form of long-wave radiation, and GHGs in the upper atmosphere absorb this long-wave radiation and emit it into space and toward the Earth. The greenhouse effect is a natural process that contributes to regulating the Earth's temperature and creates a pleasant, livable environment on the Earth. Human activities that emit additional GHGs to the atmosphere increase the amount of infrared radiation that gets absorbed before escaping into space, thus enhancing the greenhouse effect and causing the Earth's surface temperature to rise.

The scientific record of the Earth's climate shows that the climate system varies naturally over a wide range of time scales and that, in general, climate changes prior to the Industrial Revolution in the 1700s can be explained by natural causes such as changes in solar energy, volcanic eruptions, and natural changes in GHG concentrations. Recent climate changes, in particular the warming observed over the past century, however, cannot be explained by natural causes alone. Rather, it is extremely likely that human activities have been the dominant cause of that warming since the mid-twentieth century and is the most significant driver of observed climate change (IPCC 2013; EPA 2017a). Human influence on the climate system is evident from the increasing GHG concentrations in the atmosphere, positive radiative forcing, observed warming, and improved understanding of the climate system (IPCC 2013). The atmospheric concentrations of GHGs have increased to levels unprecedented in the last 800,000 years, primarily from fossil fuel emissions and secondarily from emissions associated with land use changes (IPCC 2013). Continued emissions of GHGs will cause further warming and changes in all components of the climate system, which is discussed further in Section 3.3.2, Potential Effects of Climate Change.

3.1.2 Greenhouse Gases

A GHG is any gas that absorbs infrared radiation in the atmosphere; in other words, GHGs trap heat in the atmosphere. As defined in California Health and Safety Code, Section 38505(g), for purposes of administering many of the state's primary GHG emissions reduction programs, GHGs include carbon dioxide (CO_2), methane (CH_4), nitrous oxide (N_2O), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), sulfur hexafluoride (SF_6), and nitrogen trifluoride (see also 14 CCR 15364.5). Some GHGs, such as CO_2, CH_4, and N_2O, occur naturally and are emitted into the atmosphere through natural processes and human activities. Of these gases, CO_2 and CH_4 are

emitted in the greatest quantities from human activities. Manufactured GHGs, which have a much greater heat-absorption potential than CO_2, include fluorinated gases, such as HFCs, PFCs, and SF_6, which are associated with certain industrial products and processes. The following paragraphs provide a summary of the most common GHGs and their sources.[10]

Carbon Dioxide. CO_2 is a naturally occurring gas and a byproduct of human activities and is the principal anthropogenic GHG that affects the Earth's radiative balance. Natural sources of CO_2 include respiration of bacteria, plants, animals, and fungus; evaporation from oceans; volcanic out-gassing; and decomposition of dead organic matter. Human activities that generate CO_2 are from the combustion of fuels such as coal, oil, natural gas, and wood and changes in land use.

Methane. CH_4 is produced through both natural and human activities. CH_4 is a flammable gas and is the main component of natural gas. Methane is produced through anaerobic (without oxygen) decomposition of waste in landfills, flooded rice fields, animal digestion, decomposition of animal wastes, production and distribution of natural gas and petroleum, coal production, and incomplete fossil fuel combustion.

Nitrous Oxide. N_2O is produced through natural and human activities, mainly through agricultural activities and natural biological processes, although fuel burning and other processes also create N_2O. Sources of N_2O include soil cultivation practices (microbial processes in soil and water), especially the use of commercial and organic fertilizers, manure management, industrial processes (such as in nitric acid production, nylon production, and fossil-fuel-fired power plants), vehicle emissions, and using N_2O as a propellant (e.g., rockets, racecars, and aerosol sprays).

Fluorinated Gases. Fluorinated gases (also referred to as F-gases) are synthetic powerful GHGs emitted from many industrial processes. Fluorinated gases are commonly used as substitutes for stratospheric ozone-depleting substances (e.g., chlorofluorocarbons [CFCs], hydrochlorofluorocarbons [HCFCs], and halons). The most prevalent fluorinated gases include the following:

- **Hydrofluorocarbons:** HFCs are compounds containing only hydrogen, fluorine, and carbon atoms. HFCs are synthetic chemicals used as alternatives to ozone-depleting substances in serving many industrial, commercial, and personal needs. HFCs are emitted as byproducts of industrial processes and are used in manufacturing.
- **Perfluorocarbons:** PFCs are a group of human-made chemicals composed of carbon and fluorine only. These chemicals were introduced as alternatives, with HFCs, to the ozone-depleting substances. The two main sources of PFCs are primary aluminum production and semiconductor manufacturing. Since PFCs have stable molecular structures and do not break down through the chemical processes in the lower atmosphere, these chemicals have long lifetimes, ranging between 10,000 and 50,000 years.
- **Sulfur Hexafluoride:** SF_6 is a colorless gas soluble in alcohol and ether and slightly soluble in water. SF_6 is used for insulation in electric power transmission and distribution equipment, semiconductor manufacturing, the magnesium industry, and as a tracer gas for leak detection.
- **Nitrogen Trifluoride:** Nitrogen trifluoride is used in the manufacture of a variety of electronics, including semiconductors and flat panel displays.

[10] The descriptions of GHGs are summarized from the Intergovernmental Panel on Climate Change (IPCC) Second Assessment Report (1995), IPCC Fourth Assessment Report (2007), CARB's "Glossary of Terms Used in GHG Inventories" (2015), and EPA's "Glossary of Climate Change Terms" (2016e).

Chlorofluorocarbons. CFCs are synthetic chemicals that have been used as cleaning solvents, refrigerants, and aerosol propellants. CFCs are chemically unreactive in the lower atmosphere (troposphere). The production of CFCs was prohibited in 1987 due to the chemical destruction of stratospheric O_3.

Hydrochlorofluorocarbons. HCFCs are a large group of compounds whose structure is very close to that of CFCs—containing hydrogen, fluorine, chlorine, and carbon atoms—but including one or more hydrogen atoms. Like HFCs, HCFCs are used in refrigerants and propellants. HCFCs were also used in place of CFCs for some applications; however, their use in general is being phased out.

Black Carbon. Black carbon is a component of fine particulate matter, which has been identified as a leading environmental risk factor for premature death. It is produced from the incomplete combustion of fossil fuels and biomass burning, particularly from older diesel engines and forest fires. Black carbon warms the atmosphere by absorbing solar radiation, influences cloud formation, and darkens the surface of snow and ice, which accelerates heat absorption and melting. Black carbon is a short-lived species that varies spatially, which makes it difficult to quantify the global warming potential. DPM emissions are a major source of black carbon and are TACs that have been regulated and controlled in California for several decades to protect public health. In relation to declining DPM from CARB's regulations pertaining to diesel engines, diesel fuels, and burning activities, CARB estimates that annual black carbon emissions in California have reduced by 70% between 1990 and 2010, with 95% control expected by 2020 (CARB 2014).

Water Vapor. The primary source of water vapor is evaporation from the ocean, with additional vapor generated by sublimation (change from solid to gas) from ice and snow, evaporation from other water bodies, and transpiration from plant leaves. Water vapor is the most important, abundant, and variable GHG in the atmosphere and maintains a climate necessary for life.

Ozone. Tropospheric O_3, which is created by photochemical reactions involving gases from both natural sources and human activities, acts as a GHG. Stratospheric O_3, which is created by the interaction between solar ultraviolet radiation and molecular oxygen (O_2), plays a decisive role in the stratospheric radiative balance. Depletion of stratospheric O_3, due to chemical reactions that may be enhanced by climate change, results in an increased ground-level flux of ultraviolet-B radiation.

Aerosols. Aerosols are suspensions of particulate matter in a gas emitted into the air through burning biomass (plant material) and fossil fuels. Aerosols can warm the atmosphere by absorbing and emitting heat and can cool the atmosphere by reflecting light.

3.1.3 Global Warming Potential

Gases in the atmosphere can contribute to climate change both directly and indirectly. Direct effects occur when the gas itself absorbs radiation. Indirect radiative forcing occurs when chemical transformations of the substance produce other GHGs, when a gas influences the atmospheric lifetimes of other gases, and/or when a gas affects atmospheric processes that alter the radiative balance of the Earth (e.g., affects cloud formation or albedo) (EPA 2016e). The Intergovernmental Panel on Climate Change (IPCC) developed the global warming potential (GWP) concept to compare the ability of each GHG to trap heat in the atmosphere relative to another gas. The GWP of a GHG is defined as the ratio of the time-integrated radiative forcing from the instantaneous release of 1 kilogram of a trace substance relative to that of 1 kilogram of a reference gas (IPCC 2014). The reference gas used is CO_2; therefore, GWP-weighted emissions are measured in metric tons (MT) of CO_2 equivalent (CO_2e).

The current version of CalEEMod (version 2016.3.2) assumes that the GWP for CH_4 is 25 (so emissions of 1 MT of CH_4 are equivalent to emissions of 25 MT of CO_2), and the GWP for N_2O is 298, based on the IPCC Fourth Assessment Report (IPCC 2007). The GWP values identified in CalEEMod were applied to the project.

3.2 Regulatory Setting

3.2.1 Federal Regulations

Massachusetts v. EPA. In *Massachusetts v. EPA* (April 2007), the U.S. Supreme Court directed the EPA administrator to determine whether GHG emissions from new motor vehicles cause or contribute to air pollution that may reasonably be anticipated to endanger public health or welfare, or whether the science is too uncertain to make a reasoned decision. In December 2009, the administrator signed a final rule with the following two distinct findings regarding GHGs under Section 202(a) of the federal Clean Air Act:

- The Administrator found that elevated concentrations of GHGs—CO_2, CH_4, N_2O, HFCs, PFCs, and SF_6—in the atmosphere threaten the public health and welfare of current and future generations. This is the "endangerment finding."
- The Administrator further found the combined emissions of GHGs—CO_2, CH_4, N_2O, and HFCs—from new motor vehicles and new motor vehicle engines contribute to the GHG air pollution that endangers public health and welfare. This is the "cause or contribute finding."

These two findings were necessary to establish the foundation for regulation of GHGs from new motor vehicles as air pollutants under the Clean Air Act.

Energy Independence and Security Act of 2007. The Energy Independence and Security Act of 2007 (December 2007), among other key measures, aims to do the following, which aids in the reduction of national GHG emissions (EPA 2007):

- Increase the supply of alternative fuel sources by setting a mandatory Renewable Fuel Standard requiring fuel producers to use at least 36 billion gallons of biofuel in 2022.
- Set a target of 35 miles per gallon for the combined fleet of cars and light trucks by model year 2020, and directs the National Highway Traffic Safety Administration (NHTSA) to establish a fuel economy program for medium- and heavy-duty trucks and create a separate fuel economy standard for work trucks.
- Prescribe or revise standards affecting regional efficiency for heating and cooling products and procedures for new or amended standards, energy conservation, energy-efficiency labeling for consumer electronic products, residential boiler efficiency, electric motor efficiency, and home appliances.

Federal Vehicle Standards. In response to the U.S. Supreme Court ruling previously discussed, the Bush administration issued Executive Order (EO) 13432 in 2007 directing the EPA, the Department of Transportation, and the Department of Energy to establish regulations that reduce GHG emissions from motor vehicles, non-road vehicles, and non-road engines by 2008. In 2009, the NHTSA issued a final rule regulating fuel efficiency and GHG emissions from cars and light-duty trucks for model year 2011, and in 2010, the EPA and NHTSA issued a final rule regulating cars and light-duty trucks for model years 2012–2016 (75 FR 25324–25728).

In 2010, President Barack Obama issued a memorandum directing the Department of Transportation, Department of Energy, EPA, and NHTSA to establish additional standards regarding fuel efficiency and GHG reduction, clean fuels, and advanced vehicle infrastructure. In response to this directive, EPA and NHTSA proposed stringent, coordinated federal GHG and fuel economy standards for model years 2017–2025 light-duty vehicles. The proposed standards projected to achieve 163 grams per mile of CO_2 in model year 2025, on an average industry fleet-wide basis, which is equivalent to 54.5 miles per gallon if this level were achieved solely through fuel efficiency. The final rule was adopted in 2012 for model years 2017–2021 (77 FR 62624–63200). On January 12, 2017, the EPA finalized its decision to maintain the current GHG emissions standards for model years 2022–2025 cars and light trucks (EPA 2017b).

In addition to the regulations applicable to cars and light-duty trucks described above, in 2011, the EPA and NHTSA announced fuel economy and GHG standards for medium- and heavy-duty trucks for model years 2014–2018 (76 FR 57106–57513). The standards for CO_2 emissions and fuel consumption are tailored to three main vehicle categories: combination tractors, heavy-duty pickup trucks and vans, and vocational vehicles. According to the EPA, this regulatory program will reduce GHG emissions and fuel consumption for the affected vehicles by 6%–23% over the 2010 baselines.

On September 27, 2019, the EPA and NHTSA published the Safer Affordable Fuel-Efficient (SAFE) Vehicles Rule Part One: One National Program (84 Fed. Reg. 51,310), which became effective November 26, 2019. The Part One Rule revokes California's authority to set its own GHG emissions standards and set zero-emission vehicle mandates in California. On March 31, 2020, the EPA and NHTSA issued the Part Two Rule, which will go into effect 60 days after being published in the Federal Register. The Part Two Rule sets CO_2 emissions standards and corporate average fuel economy standards for passenger vehicles and light-duty trucks for model years 2021 through 2026. This issue is evolving as California and 22 other states, as well as the District of Columbia and four cities, filed suit against the EPA and a petition for reconsideration of the rule on November 26, 2019. The litigation is not expected to be resolved for at least several months.

Clean Power Plan and New Source Performance Standards for Electric Generating Units. On October 23, 2015, EPA published a final rule (effective December 22, 2015) establishing the Carbon Pollution Emission Guidelines for Existing Stationary Sources: Electric Utility Generating Units (80 FR 64510–64660), also known as the Clean Power Plan. These guidelines prescribe how states must develop plans to reduce GHG emissions from existing fossil-fuel-fired electric generating units. The guidelines establish CO_2 emission performance rates representing the best system of emission reduction for two subcategories of existing fossil-fuel-fired electric generating units: (1) fossil-fuel-fired electric utility steam-generating units, and (2) stationary combustion turbines. Concurrently, the EPA published a final rule (effective October 23, 2015) establishing Standards of Performance for Greenhouse Gas Emissions from New, Modified, and Reconstructed Stationary Sources: Electric Utility Generating Units (80 FR 64661–65120). The rule prescribes CO_2 emission standards for newly constructed, modified, and reconstructed affected fossil-fuel-fired electric utility generating units. The U.S. Supreme Court stayed implementation of the Clean Power Plan pending resolution of several lawsuits.

3.2.2 State Regulations

The statewide GHG emissions regulatory framework is summarized below by category: state climate change targets, building energy, renewable energy and energy procurement, mobile sources, solid waste, water, and other state regulations and goals. The following text describes EOs, legislation, regulations, and other plans and policies that would directly or indirectly reduce GHG emissions and/or address climate change issues.

State Climate Change Targets

The state has taken a number of actions to address climate change. These include EOs, legislation, and CARB plans and requirements. These are summarized below.

EO S-3-05. EO S-3-05 (June 2005) established California's GHG emissions reduction targets and laid out responsibilities among the state agencies for implementing the EO and for reporting on progress toward the targets. This EO established the following targets:

- By 2010, reduce GHG emissions to 2000 levels
- By 2020, reduce GHG emissions to 1990 levels
- By 2050, reduce GHG emissions to 80% below 1990 levels

EO S-3-05 also directed the California Environmental Protection Agency to report biannually on progress made toward meeting the GHG targets and the impacts to California due to global warming, including impacts to water supply, public health, agriculture, the coastline, and forestry. The Climate Action Team was formed, which subsequently issued reports from 2006 to 2010 (CAT 2016).

AB 32. In furtherance of the goals established in EO S-3-05, the legislature enacted AB 32. The bill is referred to as the California Global Warming Solutions Act of 2006 (September 27, 2006). AB 32 provided initial direction on creating a comprehensive multiyear program to limit California's GHG emissions at 1990 levels by 2020 and initiate the transformations required to achieve the state's long-range climate objectives.

Senate Bill (SB) 32 and AB 197. SB 32 and AB 197 (enacted in 2016) are companion bills. SB 32 codified the 2030 emissions reduction goal of EO B-30-15 by requiring CARB to ensure that statewide GHG emissions are reduced to 40% below 1990 levels by 2030. AB 197 established the Joint Legislative Committee on Climate Change Policies, consisting of at least three members of the Senate and three members of the Assembly, in order to provide ongoing oversight over implementation of the state's climate policies. AB 197 also added two members of the Legislature to the CARB Board as nonvoting members; requires CARB to make available and update (at least annually via its website) emissions data for GHGs, criteria air pollutants, and TACs from reporting facilities; and requires CARB to identify specific information for GHG emissions reduction measures when updating the scoping plan.

CARB's 2007 Statewide Limit. In 2007, in accordance with California Health and Safety Code, Section 38550, CARB approved a statewide limit on the GHG emissions level for year 2020 consistent with the determined 1990 baseline (427 million metric tons [MMT] CO_2e).

CARB's Climate Change Scoping Plan. One specific requirement of AB 32 is for CARB to prepare a scoping plan for achieving the maximum technologically feasible and cost-effective GHG emission reductions by 2020 (Health and Safety Code, Section 38561[a]), and to update the plan at least once every 5 years. In 2008, CARB approved the first scoping plan. The Climate Change Scoping Plan: A Framework for Change (Scoping Plan) included a mix of recommended strategies that combined direct regulations, market-based approaches, voluntary measures, policies, and other emission reduction programs calculated to meet the 2020 statewide GHG emission limit and initiate the transformations needed to achieve the state's long-range climate objectives. The key elements of the Scoping Plan include the following (CARB 2008):

1. Expanding and strengthening existing energy efficiency programs as well as building and appliance standards
2. Achieving a statewide renewable energy mix of 33%

3. Developing a California cap-and-trade program that links with other Western Climate Initiative partner programs to create a regional market system and caps sources contributing 85% of California's GHG emissions
4. Establishing targets for transportation-related GHG emissions for regions throughout California, and pursuing policies and incentives to achieve those targets
5. Adopting and implementing measures pursuant to existing state laws and policies, including California's clean car standards, goods movement measures, and the Low Carbon Fuel Standard (LCFS) (17 CCR, Section 95480 et seq.)
6. Creating targeted fees, including a public goods charge on water use, fees on high GWP gases, and a fee to fund the administrative costs of the State of California's long-term commitment to AB 32 implementation

The Scoping Plan also identified local governments as essential partners in achieving California's goals to reduce GHG emissions because they have broad influence and, in some cases, exclusive authority over activities that contribute to significant direct and indirect GHG emissions through their planning and permitting processes, local ordinances, outreach and education efforts, and municipal operations. Specifically, the Scoping Plan encouraged local governments to adopt a reduction goal for municipal operations and for community emissions to reduce GHGs by approximately 15% from then levels (2008) by 2020. Many local governments developed community-scale local GHG reduction plans based on this Scoping Plan recommendation.

In 2014, CARB approved the first update to the Scoping Plan. The First Update to the Climate Change Scoping Plan: Building on the Framework (First Update) defined the state's GHG emission reduction priorities for the next 5 years and laid the groundwork to start the transition to the post-2020 goals set forth in EOs S-3-05 and B-16-2012. The First Update concluded that California is on track to meet the 2020 target but recommended a 2030 mid-term GHG reduction target be established to ensure a continuum of action to reduce emissions. The First Update recommended a mix of technologies in key economic sectors to reduce emissions through 2050 including energy demand reduction through efficiency and activity changes; large-scale electrification of on-road vehicles, buildings, and industrial machinery; decarbonizing electricity and fuel supplies; and the rapid market penetration of efficient and clean energy technologies. As part of the First Update, CARB recalculated the state's 1990 emissions level, using more recent GWPs identified by the IPCC from 427 MMT CO_2e to 431 MMT CO_2e.

In 2015, as directed by EO B-30-15, CARB began working on an update to the Scoping Plan to incorporate the 2030 target of 40% below 1990 levels by 2030 to keep California on its trajectory toward meeting or exceeding the long-term goal of reducing GHG emissions to 80% below 1990 levels by 2050 as set forth in S-3-05. The governor called on California to pursue a new and ambitious set of strategies, in line with the five climate change pillars from his inaugural address, to reduce GHG emissions and prepare for the unavoidable impacts of climate change. In the summer of 2016, the legislature affirmed the importance of addressing climate change through passage of SB 32 (Chapter 249, Statutes of 2016).

In January 2017, CARB released the 2017 Climate Change Scoping Plan Update (2030 Scoping Plan) for public review and comment (CARB 2017b). The 2030 Scoping Plan builds on the successful framework established in the initial Scoping Plan and First Update, while identifying new, technologically feasible and cost-effective strategies that will serve as the framework to achieve the 2030 GHG target and define the state's climate change priorities to 2030 and beyond. The strategies' known commitments include implementing renewable energy and energy efficiency (including the mandates of SB 350), increased stringency of the LCFS, measures identified in the Mobile Source and Freight Strategies, measures identified in the proposed Short-Lived Climate Pollutant Plan, and increased stringency of SB 375

targets. To fill the gap in additional reductions needed to achieve the 2030 target, it recommends continuing the cap-and-trade program and a measure to reduce GHGs from refineries by 20%.

For local governments, the 2030 Scoping Plan replaced the initial Scoping Plan's 15% reduction goal with a recommendation to aim for a community-wide goal of no more than 6 MT CO_2e per capita by 2030 and no more than 2 MT CO_2e per capita by 2050, which is consistent with the state's long-term goals. These goals are also consistent with the Global Climate Leadership Memorandum of Understanding (Under 2 MOU) (Under 2 2016) and the Paris Agreement, which are developed around the scientifically based levels necessary to limit global warming below 2°C. The 2030 Scoping Plan recognized the benefits of local government GHG planning (e.g., through climate action plans [CAPs]) and provided more information regarding tools CARB is working on to support those efforts. It also recognizes the CEQA streamlining provisions for project-level review where there is a legally adequate CAP.[11] The 2030 Scoping Plan was approved by CARB's Governing Board on December 14, 2017.

The 2030 Scoping Plan recommends strategies for implementation at the statewide level to meet the goals of AB 32, SB 32, and the EOs and establishes an overall framework for the measures that will be adopted to reduce California's GHG emissions. A project is considered consistent with the statutes and EOs if it meets the general policies in reducing GHG emissions to facilitate the achievement of the state's goals and does not impede attainment of those goals. As discussed in several cases, a given project need not be in perfect conformity with each and every planning policy or goal to be consistent. A project would be consistent if it will further the objectives and not obstruct their attainment.

CARB's Regulations for the Mandatory Reporting of Greenhouse Gas Emissions. CARB's Regulation for the Mandatory Reporting of Greenhouse Gas Emissions (17 CCR 95100–95157) incorporated by reference certain requirements that EPA promulgated in its Final Rule on Mandatory Reporting of Greenhouse Gases (Title 40, CFR, Part 98). Specifically, Section 95100(c) of the Mandatory Reporting Regulation incorporated those requirements that EPA promulgated in the Federal Register on October 30, 2009; July 12, 2010; September 22, 2010; October 28, 2010; November 30, 2010; December 17, 2010; and April 25, 2011. In general, entities subject to the Mandatory Reporting Regulation that emit over 10,000 MT CO_2e per year are required to report annual GHGs through the California Electronic GHG Reporting Tool. Certain sectors, such as refineries and cement plants, are required to report regardless of emission levels. Entities that emit more than the 25,000 MT CO_2e per year threshold are required to have their GHG emission report verified by a CARB-accredited third party.

EO B-18-12. EO B-18-12 (April 2012) directed state agencies, departments, and other entities under the governor's executive authority to take action to reduce entity-wide GHG emissions by at least 10% by 2015 and 20% by 2020, as measured against a 2010 baseline. EO B-18-12 also established goals for existing state buildings for reducing grid-based energy purchases and water use.

EO B-30-15. EO B-30-15 (April 2015) identified an interim GHG reduction target in support of targets previously identified under EO S-3-05 and AB 32. EO B-30-15 set an interim target goal of reducing GHG emissions to 40% below 1990 levels by 2030 to keep California on its trajectory toward meeting or exceeding the long-term goal of reducing GHG emissions to 80% below 1990 levels by 2050 as set forth in EO S-3-05. To facilitate achieving this goal, EO B-30-15 called for CARB to update the Scoping Plan to express the 2030 target in terms of MMT CO_2e.

[11] *Sierra Club v. County of Napa* (2004) 121 Cal.App.4th 1490; *San Francisco Tomorrow et al. v. City and County of San Francisco* (2015) 229 Cal.App.4th 498; *San Franciscans Upholding the Downtown Specific Plan v. City and County of San Francisco* (2002) 102 Cal.App.4th 656; *Sequoyah Hills Homeowners Assn. V. City of Oakland* (1993) 23 Cal.App.4th 704, 719.

The EO also called for state agencies to continue to develop and implement GHG emission reduction programs in support of the reduction targets.

SB 605 and SB 1383. SB 605 (2014) requires CARB to complete a comprehensive strategy to reduce emissions of short-lived climate pollutants in the state, and SB 1383 (2016) requires CARB to approve and implement that strategy by January 1, 2018. SB 1383 also establishes specific targets for the reduction of short-lived climate pollutants (40% below 2013 levels by 2030 for CH_4 and HFCs, and 50% below 2013 levels by 2030 for anthropogenic black carbon), and provides direction for reductions from dairy and livestock operations and landfills. Accordingly, and as mentioned above, CARB adopted its Short-Lived Climate Pollutant Reduction Strategy in March 2017. The Short-Lived Climate Pollutant Reduction Strategy establishes a framework for the statewide reduction of emissions of black carbon, CH_4, and fluorinated gases.

EO B-55-18. EO B-55-18 (September 2018) establishes a new statewide goal "to achieve carbon neutrality as soon as possible, and no later than 2045, and achieve and maintain net negative emissions thereafter." This executive order directs CARB to "work with relevant state agencies to ensure future Scoping Plans identify and recommend measures to achieve the carbon neutrality goal."

Building Energy

Title 24, Part 6. Title 24 of the California Code of Regulations was established in 1978 and serves to enhance and regulate California's building standards. While not initially promulgated to reduce GHG emissions, Part 6 of Title 24 specifically established Building Energy Efficiency Standards that are designed to ensure new and existing buildings in California achieve energy efficiency and preserve outdoor and indoor environmental quality. These energy efficiency standards are reviewed every few years by the Building Standards Commission and the California Energy Commission (CEC) (and revised if necessary) (California Public Resources Code, Section 25402[b][1]). The regulations receive input from members of industry, as well as the public, with the goal of "reducing of wasteful, uneconomic, inefficient, or unnecessary consumption of energy" (California Public Resources Code, Section 25402). These regulations are carefully scrutinized and analyzed for technological and economic feasibility (California Public Resources Code, Section 25402[d]) and cost effectiveness (California Public Resources Code, Sections 25402[b][2] and [b][3]). As a result, these standards save energy, increase electricity supply reliability, increase indoor comfort, avoid the need to construct new power plants, and help preserve the environment.

The 2016 Title 24 building energy efficiency standards, which became effective January 1, 2017. The 2019 Title 24 Building Energy Efficiency Standards, which became effective January 1, 2020, will further reduce energy used and associated GHG emissions compared to 2016 standards. Nonresidential buildings built to the 2019 standards are anticipated to use an estimated 30% less energy than those built to the 2016 standards (CEC 2018).

Title 24, Part 11. In addition to the CEC's efforts, in 2008, the California Building Standards Commission adopted the nation's first green building standards. The California Green Building Standards Code (Part 11 of Title 24) is commonly referred to as California's Green Building Standards (CALGreen), and establishes minimum mandatory standards and voluntary standards pertaining to the planning and design of sustainable site development, energy efficiency (in excess of the California Energy Code requirements), water conservation, material conservation, and interior air quality. The CALGreen standards took effect in January 2011 and instituted mandatory minimum

environmental performance standards for all ground-up, new construction of commercial, low-rise residential and state-owned buildings and schools and hospitals.

The 2019 Title 24 Building Energy Efficiency Standards became effective January 1, 2020, and will further reduce energy used and associated GHG emissions compared to current standards. Nonresidential buildings built to the 2019 standards are anticipated to use an estimated 30% less energy than those built to the 2016 standards (CEC 2018). This is due, in part, because the 2019 Title 24 standards focus on building energy efficiency and ensuring solar electricity generated on site is used on site. "Looking beyond the 2019 standards, the most important energy characteristic for a building will be that it produces and consumes energy at times that are appropriate and responds to the needs of the grid, which reduces the building's emissions" (CEC 2018, p.2).

The California Public Utilities Commission (CPUC), CEC, and CARB also have a shared, established goal of achieving zero net energy performance for new construction in California. The key policy timelines include (1) all new residential construction in California will be zero net energy by 2020, and (2) all new commercial construction in California will be zero net energy by 2030.[12]

Title 20. Title 20 of the California Code of Regulations requires manufacturers of appliances to meet state and federal standards for energy and water efficiency. The CEC certifies an appliance based on a manufacturer's demonstration that the appliance meets the standards. New appliances regulated under Title 20 include refrigerators, refrigerator-freezers, and freezers; room air conditioners and room air-conditioning heat pumps; central air conditioners; spot air conditioners; vented gas space heaters; gas pool heaters; plumbing fittings and plumbing fixtures; fluorescent lamp ballasts; lamps; emergency lighting; traffic signal modules; dishwaters; clothes washers and dryers; cooking products; electric motors; low-voltage dry-type distribution transformers; power supplies; televisions and consumer audio and video equipment; and battery charger systems. Title 20 presents protocols for testing each type of appliance covered under the regulations and appliances must meet the standards for energy performance, energy design, water performance, and water design. Title 20 contains three types of standards for appliances: federal and state standards for federally regulated appliances, state standards for federally regulated appliances, and state standards for non-federally regulated appliances.

SB 1. SB 1 (August 2006) established a $3 billion rebate program to support the goal of the state to install rooftop solar energy systems with a generation capacity of 3,000 megawatts through 2016. SB 1 added sections to the Public Resources Code, including Chapter 8.8 (California Solar Initiative), that require building projects applying for ratepayer-funded incentives for photovoltaic systems to meet minimum energy efficiency levels and performance requirements. Section 25780 established that it is a goal of the state to establish a self-sufficient solar industry. The goals included establishing solar energy systems as a viable mainstream option for both homes and businesses within 10 years of adoption, and placing solar energy systems on 50% of new homes within 13 years of adoption. SB 1, also termed "Go Solar California," was previously titled "Million Solar Roofs."

AB 1470 (Solar Water Heating). This bill established the Solar Water Heating and Efficiency Act of 2007. The bill includes findings and declarations of the legislature relating to the promotion of solar water heating systems and other technologies that reduce natural gas demand. The bill defines several terms for purposes of the act. The bill requires the commission to evaluate the data available from a specified pilot program, and, if it makes a specified

[12] See for example, CPUC, California's Zero Net Energy Policies and Initiatives, Sept. 18, 2013, accessed at http://annualmeeting.naseo.org/Data/Sites/2/presentations/Fogel-Getting-to-ZNE-CA-Experience.pdf. It is expected that achievement of the zero net energy goal will occur via revisions to the Title 24 standards.

determination, to design and implement a program of incentives for the installation of 200,000 solar water heating systems in homes and businesses throughout the state by 2017.

Renewable Energy and Energy Procurement

SB 1078. SB 1078 (September 2002) established the Renewable Portfolio Standard (RPS) program, which required an annual increase in renewable generation by the utilities equivalent to at least 1% of sales, with an aggregate goal of 20% by 2017. This goal was subsequently accelerated, requiring utilities to obtain 20% of their power from renewable sources by 2010 (see SB 107, EO S-14-08, and S-21-09).

SB 1368. SB 1368 (September 2006) required the CEC to develop and adopt regulations for GHG emission performance standards for the long-term procurement of electricity by local publicly owned utilities. These standards must be consistent with the standards adopted by the CPUC.

AB 1109. Enacted in 2007, AB 1109 required the CEC to adopt minimum energy efficiency standards for general-purpose lighting, to reduce electricity consumption by 50% for indoor residential lighting and 25% for indoor commercial lighting.

EO S-14-08. EO S-14-08 (November 2008) focused on the contribution of renewable energy sources to meet the electrical needs of California while reducing the GHG emissions from the electrical sector. This EO required that all retail suppliers of electricity in California serve 33% of their load with renewable energy by 2020. Furthermore, the EO directed state agencies to take appropriate actions to facilitate reaching this target. The California Natural Resources Agency (CNRA), through collaboration with the CEC and California Department of Fish and Wildlife (formerly the California Department of Fish and Game), was directed to lead this effort.

EO S-21-09 and SB X1-2. EO S-21-09 (September 2009) directed CARB to adopt a regulation consistent with the goal of EO S-14-08 by July 31, 2010. CARB was further directed to work with the CPUC and CEC to ensure that the regulation built upon the RPS program and was applicable to investor-owned utilities, publicly owned utilities, direct access providers, and community choice providers. Under this order, CARB was to give the highest priority to those renewable resources that provide the greatest environmental benefits with the least environmental costs and impacts on public health and that can be developed the most quickly in support of reliable, efficient, cost-effective electricity system operations. On September 23, 2010, CARB initially approved regulations to implement a Renewable Electricity Standard. However, this regulation was not finalized because of subsequent legislation (SB X1-2, Simitian, Statutes of 2011) signed by Governor Brown in April 2011.

SB X1-2 expanded the RPS by establishing a renewable energy target of 20% of the total electricity sold to retail customers in California per year by December 31, 2013, and 33% by December 31, 2020, and in subsequent years. Under the bill, a renewable electrical generation facility is one that uses biomass, solar thermal, photovoltaic, wind, geothermal, fuel cells using renewable fuels, small hydroelectric generation (30 megawatts or less), digester gas, municipal solid waste conversion, landfill gas, ocean wave, ocean thermal, or tidal current, and that meets other specified requirements with respect to its location.

SB X1-2 applies to all electricity retailers in the state including publicly owned utilities, investor-owned utilities, electricity service providers, and community choice aggregators. All of these entities must meet the renewable energy goals previously listed.

Supreme Court Ruling in Center for Biological Diversity v. California Fish and Wildlife

In its 2015 decision in *Center for Biological Diversity v. Department of Fish and Wildlife*, S217763,[13] the California Supreme Court evaluated the California Department of Fish and Wildlife's analysis of potential impacts caused by GHG emissions contained in the environmental impact report (EIR) for the proposed land development called Newhall Ranch. In the EIR, the California Department of Fish and Wildlife analyzed GHG emissions under AB 32, using the business-as-usual comparison as its sole criterion of significance.

In Newhall, the California Supreme Court concluded that a finding of consistency with meeting statewide emission reduction goals is a legally permissible criterion of significance when analyzing potential impacts of GHG emissions under CEQA. However, the Court found that the EIR's conclusion that the project's emissions would be less than significant under that criterion was not supported by substantial evidence, and remanded back to the appellate court the narrow issue of whether substantial evidence supported the application of AB 32 statewide GHG reduction goal of 29% to new land use projects.

The Court then identified potential options for lead agencies evaluating cumulative significance of a proposed land use development's GHG emissions in future CEQA documents:

1. Business-As-Usual Model: While the Court cautioned that the Scoping Plan may not be appropriate at the project-level, the business-as-usual model might be used to determine what level of reduction from business as usual a new land use development at the proposed location must contribute in order to comply with statewide goals pursuant to AB 32.
2. Compliance With Regulatory Programs Designed To Reduce Greenhouse Gas Emissions: The Court suggests that a lead agency could rely on a showing of compliance with regulatory programs designed to reduce GHG emissions. The Court clarifies that a significance analysis based on compliance with such statewide regulations only goes to impacts within the area governed by the regulations.
3. Local Climate Action Plan (CAP) Or Other "Geographically Specific Greenhouse Gas Emission Reduction Plans": The Court points out that these plans may provide a basis for the tiering or streamlining of project-level CEQA analysis, so long as the plan is "sufficiently detailed and adequately supported." Increase the supply of alternative fuel sources by setting a mandatory Renewable Fuel Standard requiring fuel producers to use at least 36 billion gallons of biofuel in 2022.
4. Regional Sustainable Community Strategy (SCS): The Court also articulates that a lead agency need not additionally analyze GHG emissions from cars and light trucks in CEQA documents for certain residential, mixed use and transit priority projects that are consistent with an applicable SCS adopted pursuant to SB 375.
5. Numerical GHG Significance Thresholds: Although noting that use of such thresholds are GHG significance thresholds, which are based on compliance with AB 32, and use a "service population" GHG ratio threshold for land use projects and a 10,000-ton annual GHG emission threshold for industrial projects. The Court remanded for further consideration the application of the 29% overall Scoping Plan metric, which is used by several Air Districts and, like the favorably-cited Bay Area Air Quality Management District metric, is based on AB 32.

[13] The Newhall decision is available at https://caselaw.findlaw.com/ca-supreme-court/1719578.html (accessed November 2018).

Citing to EOs S-3-05 and B-30-15, the Court cautioned that those EIRs taking a goal-consistency approach to CEQA significance may in the future need to consider the project's effects on meeting emissions reduction targets beyond 2020.

SB 350. SB 350 (October 2015) further expanded the RPS by establishing a goal of 50% of the total electricity sold to retail customers in California per year by December 31, 2030. In addition, SB 350 included the goal to double the energy efficiency savings in electricity and natural gas final end uses (e.g., heating, cooling, lighting, or class of energy uses on which an energy-efficiency program is focused) of retail customers through energy conservation and efficiency. The bill also requires the CPUC, in consultation with the CEC, to establish efficiency targets for electrical and gas corporations consistent with this goal.

SB 100. SB 100 (2018) increased the standards set forth in SB 350 establishing that 44% of the total electricity sold to retail customers in California per year by December 31, 2024, 52% by December 31, 2027, and 60% by December 31, 2030, be secured from qualifying renewable energy sources. SB 100 states that it is the policy of the state that eligible renewable energy resources and zero-carbon resources supply 100% of the retail sales of electricity to California. This bill requires that the achievement of 100% zero-carbon electricity resources do not increase the carbon emissions elsewhere in the western grid and that the achievement not be achieved through resource shuffling.

Mobile Sources

AB 1493. AB 1493 (July 2002) was enacted in a response to the transportation sector accounting for more than half of California's CO_2 emissions. AB 1493 required CARB to set GHG emission standards for passenger vehicles, light-duty trucks, and other vehicles determined by the state board to be vehicles that are primarily used for noncommercial personal transportation in the state. The bill required that CARB set GHG emission standards for motor vehicles manufactured in 2009 and all subsequent model years. CARB adopted the standards in September 2004.

Heavy Duty Diesel. CARB adopted the final Heavy Duty Truck and Bus Regulation, Title 13, Division 3, Chapter 1, Section 2025, on December 31, 2014, to reduce particulate matter and NO_x emissions from heavy-duty diesel vehicles. The rule requires particulate matter filters be applied to newer heavier trucks and buses by January 1, 2012, with older vehicles required to comply by January 1, 2015. The rule will require nearly all diesel trucks and buses to be compliant with the 2010 model year engine requirement by January 1, 2023. CARB also adopted an Airborne Toxic Control Measure to limit idling of diesel-fueled commercial vehicles on December 12, 2013. This rule requires diesel-fueled vehicles with gross vehicle weights greater than 10,000 pounds to idle no more than 5 minutes at any location (13 CCR 2485).

EO S-1-07. EO S-1-07 (January 2007, implementing regulation adopted in April 2009) sets a declining LCFS for GHG emissions measured in CO_2e grams per unit of fuel energy sold in California. The target of the LCFS is to reduce the carbon intensity of California passenger vehicle fuels by at least 10% by 2020 (17 CCR 95480 et seq.). The carbon intensity measures the amount of GHG emissions in the lifecycle of a fuel, including extraction/feedstock production, processing, transportation, and final consumption, per unit of energy delivered.

SB 375. SB 375 (September 2008) addresses GHG emissions associated with the transportation sector through regional transportation and sustainability plans. SB 375 requires CARB to adopt regional GHG reduction targets for the automobile and light-truck sector for 2020 and 2035 and to update those targets every 8 years. SB 375

requires each of the state's 18 regional metropolitan planning organizations to prepare an SCS as part of their RTP that will achieve the GHG reduction targets set by CARB. If a metropolitan planning organization is unable to devise an SCS to achieve the GHG reduction target, the metropolitan planning organization must prepare an alternative planning strategy demonstrating how the GHG reduction target would be achieved through alternative development patterns, infrastructure, or additional transportation measures or policies.

Pursuant to Government Code, Section 65080(b)(2)(K), a SCS does not (i) regulate the use of land; (ii) supersede the land use authority of cities and counties; or (iii) require that a city's or county's land use policies and regulations, including those in a general plan, be consistent with it. Nonetheless, SB 375 makes regional and local planning agencies responsible for developing those strategies as part of the federally required metropolitan transportation planning process and the state-mandated housing element process.

In September 2010, CARB adopted the first SB 375 targets for the regional metropolitan planning organizations. The targets for SCAG are an 8% reduction in emissions per capita by 2020 and a 13% reduction by 2035. Achieving these goals through adoption of a SCS is the responsibility of the metropolitan planning organizations. SCAG adopted its first RTP/SCS in April 2012. The plan quantified a 9% reduction by 2020 and a 16% reduction by 2035 (SCAG 2012). In June 2012, CARB accepted SCAG's quantification of GHG reductions and its determination the SCS, if implemented, would achieve SCAG targets. On April 4, 2016, the SCAG Regional Council adopted the 2016 RTP/SCS, which builds upon the progress made in the 2012 RTP/SCS. The updated RTP/SCS quantified an 8% reduction by 2020 and an 18% reduction by 2030 (SCAG 2016). In June 2016, CARB accepted SCAG's quantification of GHG reductions and its determination the SCS, if implemented, would achieve SCAG targets.

Advanced Clean Cars Program and Zero-Emissions Vehicle Program. The Advanced Clean Cars Program (January 2012) is a new emissions-control program for model years 2015 through 2025. The program combines the control of smog- and soot-causing pollutants and GHG emissions into a single coordinated package. The package includes elements to reduce smog-forming pollution, reduce GHG emissions, promote clean cars, and provide the fuels for clean cars (CARB 2012). To improve air quality, CARB has implemented new emission standards to reduce smog-forming emissions beginning with 2015 model year vehicles. It is estimated that in 2025 cars will emit 75% less smog-forming pollution than the average new car sold today. To reduce GHG emissions, CARB, in conjunction with the EPA and the NHTSA, adopted new GHG standards for model year 2017 to 2025 vehicles; the new standards are estimated to reduce GHG emissions by 34% in 2025. The Zero-Emissions Vehicle Program will act as the focused technology of the Advanced Clean Cars Program by requiring manufacturers to produce increasing numbers of zero-emissions vehicles and plug-in hybrid electric vehicles in the 2018 to 2025 model years.

EO B-16-12. EO B-16-12 (March 2012) required that state entities under the governor's direction and control support and facilitate the rapid commercialization of zero-emissions vehicles. It ordered CARB, CEC, CPUC, and other relevant agencies to work with the Plug-in Electric Vehicle Collaborative and the California Fuel Cell Partnership to establish benchmarks to help achieve benchmark goals by 2015, 2020, and 2025. On a statewide basis, EO B-16-12 established a target reduction of GHG emissions from the transportation sector equaling 80% less than 1990 levels by 2050. This directive did not apply to vehicles that have special performance requirements necessary for the protection of the public safety and welfare.

AB 1236. AB 1236 (October 2015) required a city, county, or city and county to approve an application for the installation of electric vehicle charging stations, as defined, through the issuance of specified permits, unless the city or county makes specified written findings based upon substantial evidence in the record that the proposed installation would have a specific, adverse impact upon the public health or safety, and there is no feasible

method to satisfactorily mitigate or avoid the specific, adverse impact. The bill provided for appeal of that decision to the planning commission, as specified. The bill provided that the implementation of consistent statewide standards to achieve the timely and cost-effective installation of electric vehicle charging stations is a matter of statewide concern. The bill required electric vehicle charging stations to meet specified standards. The bill required a city, county, or city and county with a population of 200,000 or more residents to adopt an ordinance, by September 30, 2016, that created an expedited and streamlined permitting process for electric vehicle charging stations, as specified. The bill also required a city, county, or city and county with a population of less than 200,000 residents to adopt this ordinance by September 30, 2017.

Water

EO B-29-15. In response to the ongoing drought in California, EO B-29-15 (April 2015) set a goal of achieving a statewide reduction in potable urban water usage of 25% relative to water use in 2013. The term of the EO extended through February 28, 2016, although many of the directives have become permanent water-efficiency standards and requirements. The EO includes specific directives that set strict limits on water usage in the state. In response to EO B-29-15, the California Department of Water Resources has modified and adopted a revised version of the Model Water Efficient Landscape Ordinance that, among other changes, significantly increases the requirements for landscape water use efficiency and broadens its applicability to include new development projects with smaller landscape areas.

Solid Waste

AB 939 and AB 341. In 1989, AB 939, known as the Integrated Waste Management Act (California Public Resources Code, Sections 40000 et seq.), was passed because of the increase in waste stream and the decrease in landfill capacity. The statute established the California Integrated Waste Management Board, which oversees a disposal reporting system. AB 939 mandated a reduction of waste being disposed where jurisdictions were required to meet diversion goals of all solid waste through source reduction, recycling, and composting activities of 25% by 1995 and 50% by the year 2000.

AB 341 (Chapter 476, Statutes of 2011) amended the California Integrated Waste Management Act of 1989 to include a provision declaring that it is the policy goal of the state that not less than 75% of solid waste generated be source-reduced, recycled, or composted by the year 2020, and annually thereafter. In addition, AB 341 required the California Department of Resources Recycling and Recovery (CalRecycle) to develop strategies to achieve the state's policy goal. CalRecycle conducted several general stakeholder workshops and several focused workshops and in August 2015 published a discussion document titled AB 341 Report to the Legislature, which identifies five priority strategies that CalRecycle believes would assist the state in reaching the 75% goal by 2020, legislative and regulatory recommendations, and an evaluation of program effectiveness (CalRecycle 2012).

Other State Actions

Senate Bill 97. SB 97 (August 2007) directed the Governor's Office of Planning and Research to develop guidelines under CEQA for the mitigation of GHG emissions. In 2008, the Office of Planning and Research issued a technical advisory as interim guidance regarding the analysis of GHG emissions in CEQA documents. The advisory indicated that the lead agency should identify and estimate a project's GHG emissions, including those associated with vehicular traffic, energy consumption, water usage, and construction activities (OPR 2008). The advisory further recommended that the lead agency determine significance of the impacts and impose all

mitigation measures necessary to reduce GHG emissions to a level that is less than significant. The CNRA adopted the CEQA Guidelines amendments in December 2009, which became effective in March 2010.

Under the amended CEQA Guidelines, a lead agency has the discretion to determine whether to use a quantitative or qualitative analysis or apply performance standards to determine the significance of GHG emissions resulting from a particular project (14 CCR 15064.4[a]). The CEQA Guidelines require a lead agency to consider the extent to which the project complies with regulations or requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation of GHG emissions (14 CCR 15064.4[b]). The CEQA Guidelines also allow a lead agency to consider feasible means of mitigating the significant effects of GHG emissions, including reductions in emissions through the implementation of project features or off-site measures. The adopted amendments do not establish a GHG emission threshold, instead allowing a lead agency to develop, adopt, and apply its own thresholds of significance or those developed by other agencies or experts. The CNRA also acknowledges that a lead agency may consider compliance with regulations or requirements implementing AB 32 in determining the significance of a project's GHG emissions (CNRA 2009).

With respect to GHG emissions, the CEQA Guidelines state in Section 15064.4(a) that lead agencies should "make a good faith effort, to the extent possible on scientific and factual data, to describe, calculate or estimate" GHG emissions. The CEQA Guidelines note that an agency may identify emissions by either selecting a "model or methodology" to quantify the emissions or by relying on "qualitative analysis or other performance based standards" (14 CCR 15064.4[a]). Section 15064.4(b) states that the lead agency should consider the following when assessing the significance of impacts from GHG emissions on the environment: (1) the extent a project may increase or reduce GHG emissions as compared to the existing environmental setting; (2) whether the project emissions exceed a threshold of significance that the lead agency determines applies to the project; and (3) the extent to which the project complies with regulations or requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation of GHG emissions (14 CCR 15064.4[b]).

EO S-13-08. EO S-13-08 (November 2008) is intended to hasten California's response to the impacts of global climate change, particularly sea-level rise. Therefore, the EO directs state agencies to take specified actions to assess and plan for such impacts. The final 2009 California Climate Adaptation Strategy report was issued in December 2009 (CNRA 2009), and an update, Safeguarding California: Reducing Climate Risk, followed in July 2014 (CNRA 2014). To assess the state's vulnerability, the report summarizes key climate change impacts to the state for the following areas: agriculture, biodiversity and habitat, emergency management, energy, forestry, ocean and coastal ecosystems and resources, public health, transportation, and water. Issuance of the Safeguarding California: Implementation Action Plans followed in March 2016 (CNRA 2016). In January 2018, the CNRA released the Safeguarding California Plan: 2018 Update, which communicates current and needed actions that state government should take to build climate change resiliency (CNRA 2018).

2015 State of the State Address. In January 2015, Governor Brown in his inaugural address and annual report to the legislature established supplementary goals that would further reduce GHG emissions over the next 15 years. These goals include an increase in California's renewable energy portfolio from 33% to 50%, a reduction in vehicle petroleum use for cars and trucks by up to 50%, measures to double the efficiency of existing buildings, and decreasing emissions associated with heating fuels.

2016 State of the State Address. In his January 2016 address, Governor Brown established a statewide goal to bring per capita GHG emission down to 2 tons per person, which reflects the goal of the Under 2 MOU to limit global warming to less than 2°C by 2050. The Under 2 MOU agreement pursues emission reductions of 80% to

95% below 1990 levels by 2050 and/or reaching a per capita annual emissions goal of less than 2 MT by 2050. A total of 135 jurisdictions representing 32 countries and 6 continents, including California, have signed or endorsed the Under 2 MOU (Under 2 2016).

3.2.3 Local Regulations

3.2.3.1 South Coast Air Quality Management District

Air districts typically act in an advisory capacity to local governments in establishing the framework for environmental review of air pollution impacts under CEQA. This may include recommendations regarding significance thresholds, analytical tools to estimate emissions and assess impacts, and mitigations for potentially significant impacts. Although air districts will also address some of these issues on a project-specific basis as responsible agencies, they may provide general guidance to local governments on these issues (SCAQMD 2008). As discussed in Section 3.4.1, Thresholds of Significance, the SCAQMD has recommended numeric CEQA significance thresholds for GHG emissions for lead agencies to use in assessing GHG impacts of residential and commercial development projects; however, these thresholds were not adopted. See Section 2.2.3.1, South Coast Air Quality Management District, for additional discussion on the SCAQMD.

3.2.3.2 City of Murrieta General Plan 2035

The Air Quality Element of the City's General Plan (City of Murrieta 2011b) includes the goals and policies that result in co-benefits with reducing GHG emissions. The Air Quality Element of the City's General Plan is discussed in Section 2.2.3.3. The Conservation Element includes goals and policies that result in reducing GHG emissions; the applicable goals and policies are as follows (City of Murrieta 2011b):

GOAL CSV-2 Murrieta promotes compliance with requirements from the State and appropriate agencies regarding comprehensive water conservation measures in buildings and landscaping.

Policy CSV-2.1 Ensure that all developments comply with water efficiency requirements, as mandated by the applicable Building Code.

GOAL CSV-12 Energy conservation and the generation of energy from renewable sources is prioritized as part of an overall strategy to reduce GHG emissions.

Policy CSV-12.1 Ensure that all developments comply with energy efficiency requirements as mandated by the applicable Building Code.

Policy CSV-12.3 Support the on-site installation and use of renewable energy generation systems for residential, commercial, institutional, and industrial uses.

GOAL CSV-13 Solid waste is diverted from landfills through waste reduction, re-use, and recycling.

Policy CSV-13.1 Continue to comply with the landfill diversion requirements of the Integrated Waste Management Program.

Policy CSV-13.2 Ensure that non-residential and multi-family developments provide readily accessible areas for recycling (at a minimum) paper, corrugated cardboard, glass, plastics and metals, as required by California law.

GOAL CSV-14 A community that encourages and incentivizes the sustainable development of buildings and neighborhoods, particularly with respect to durability, energy and water use, and transportation impacts.

Policy CSV-14.1 Ensure all applicable construction projects comply with the California State Green Building Standards Code.

Policy CSV-14.2 Encourage the integration of other principles of green building into development standards and guidelines, looking for opportunities to realize other benefits such as improved health and increased bicycle transportation.

3.2.3.3 City of Murrieta Climate Action Plan

Adopted as part of the City's General Plan (City of Murrieta 2011b) on July 11, 2011, the City's CAP, which was prepared following CEQA Guidelines Section 15183.5, provides a framework for reducing GHG emissions and managing resources to best prepare for a changing climate. With respect to evaluation of projects under CEQA, the CAP states, "Projects that demonstrate consistency with the strategies, actions, and emission reduction targets contained in the CAP would have a less than significant impacts on climate change" (City of Murrieta 2011c). The City's CAP also suggests best practices for implementation and makes recommendations for measuring progress.

The City's CAP is intended to address the main sources of the emissions that cause climate change, which include emissions from the energy consumed in buildings and for transportation, as well as the solid waste sent to landfills. The purpose of the City's CAP is to guide the development, enhancement, and implementation of actions that would reduce the City's GHG emissions by 15% below existing (2009) levels by 2020.

3.3 Greenhouse Gas Inventories and Climate Change Conditions

3.3.1 Sources of Greenhouse Gas Emissions

Anthropogenic GHG emissions worldwide in 2017 (the most recent year for which data is available) totaled approximately 50,860 MMT CO_2e, excluding land use change and forestry (PBL 2018). Six countries—China, the United States, the Russian Federation, India, Japan, and Brazil—and the European community accounted for approximately 65% of the total global emissions, or approximately 33,290 MMT CO_2e (PBL 2018).

Per the EPA's *Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990–2018* (EPA 2020c), total United States GHG emissions were approximately 6,676.6 MMT CO_2e in 2018. The primary GHG emitted by human activities in the United States was CO_2, which represented approximately 81.3% of total GHG emissions (5,428.1 MMT CO_2e). The largest source of CO_2, and of overall GHG emissions, was fossil-fuel combustion, which accounted for approximately 92.8% of CO_2 emissions in 2018 (5,031.8 MMT CO_2e). Relative to 1990, gross

United States GHG emissions in 2018 are higher by 3.7%, down from a high of 15.2% above 1990 levels in 2007. GHG emissions decreased from 2017 to 2018 by 2.9% (188.4 MMT CO_2e) and overall, net emissions in 2018 were 10.2% below 2005 levels (EPA 2020c).

According to California's 2000–2017 GHG emissions inventory (2019 edition), California emitted 424 MMT CO_2e in 2017, including emissions resulting from out-of-state electrical generation (CARB 2019). The sources of GHG emissions in California include transportation, industry, electric power production from both in-state and out-of-state sources, residential and commercial activities, agriculture, high GWP substances, and recycling and waste. The California GHG emission source categories and their relative contributions in 2017 are presented in Table 14, Greenhouse Gas Emissions Sources in California.

Table 14. Greenhouse Gas Emissions Sources in California

Source Category	Annual GHG Emissions (MMT CO2e)	Percent of Total[a]
Transportation	169.86	40%
Industrial	89.40	21%
Electric power[b]	62.39	15%
Agriculture	32.42	8%
Residential	26.00	6%
Commercial	15.14	4%
High global-warming potential substances	19.99	5%
Recycling and waste	8.89	2%
Total	**424.10**	**100%**

Source: CARB 2019
Notes: GHG = greenhouse gas; MMT CO_2e = million metric tons of carbon dioxide equivalent per year.
Emissions reflect the 2017 California GHG inventory.
[a] Percentage of total has been rounded, and total does not sum due to rounding.
[b] Includes emissions associated with imported electricity, which account for 23.94 MMT CO_2e annually.

Between 2000 and 2017, per-capita GHG emissions in California have dropped from a peak of 14.1 MT per person in 2001 to 10.7 MT per person in 2017, representing a 24% decrease. In addition, total GHG emissions in 2017 were approximately 5 MMT CO_2e less than 2016 emissions (CARB 2019).

The City community-wide GHG emissions inventory is summarized in Table 15. Transportation-related activities account for the majority of the City's GHG emissions (48%). Approximately 24% of the City's community-wide GHG emissions are attributed to residential uses. Commercial uses account for approximately 15%. Office, business park, civic/institutional, industrial, and waste disposal account for the remaining 13% of community-wide GHG emissions.

Table 15. Greenhouse Gas Emissions Sources in City of Murrieta

Source Category	Annual GHG Emissions (MT CO_2e)[a]	Percent of Total[a]
Residential	91,492	23.5%
Commercial	60,153	15.4%
Office	12,711	3.3%
Business Park	8,332	2.1%
Civic/Institutional	9,333	2.4%
Industrial	3,463	0.9%
Transportation	188,138	48.3%
Waste	14,795	3.8%

Table 15. Greenhouse Gas Emissions Sources in City of Murrieta

Source Category	Annual GHG Emissions (MT CO_2e)[a]	Percent of Total[a]
Total	389,717	100.0%

Source: City of Murrieta 2011c.
Notes: GHG = greenhouse gas; MT CO_2e = metric tons of carbon dioxide equivalent.
Emissions reflect the 2009 City of Murrieta GHG inventory.
[a] Total may not sum due to rounding.

3.3.2 Potential Effects of Climate Change

Globally, climate change has the potential to affect numerous environmental resources through uncertain impacts related to future air temperatures and precipitation patterns. The 2014 Intergovernmental Panel on Climate Change Synthesis Report (IPCC 2014) indicated that warming of the climate system is unequivocal, and since the 1950s, many of the observed changes are unprecedented over decades to millennia. Signs that global climate change has occurred include warming of the atmosphere and ocean, diminished amounts of snow and ice, and rising sea levels (IPCC 2014).

In California, climate change impacts have the potential to affect sea-level rise, agriculture, snowpack and water supply, forestry, wildfire risk, public health, and electricity demand and supply.

In California, climate change impacts have the potential to affect sea-level rise, agriculture, snowpack and water supply, forestry, wildfire risk, public health, and electricity demand and supply. The primary effect of global climate change has been a rise in average global tropospheric temperature. The primary effect of global climate change has been a rise in average global tropospheric temperature. Reflecting the long-term warming trend since pre-industrial times, observed mean surface temperature for the decade 2006–2015 was 0.87°C (likely between 0.75°C and 0.99°C) higher than the average over the 1850–1900 period (IPCC 2018). Scientific modeling predicts that continued emissions of GHGs at or above current rates would induce more extreme climate changes during the twenty-first century than were observed during the twentieth century. Human activities are estimated to have caused approximately 1.0°C (1.8°F) of global warming above pre-industrial levels, with a likely range of 0.8°C to 1.2°C (1.4°F to 2.2°F) (IPCC 2018). Global warming is likely to reach 1.5°C (2.7°F) between 2030 and 2052 if it continues to increase at the current rate (IPCC 2018).

Although climate change is driven by global atmospheric conditions, climate change impacts are felt locally. A scientific consensus confirms that climate change is already affecting California. The Office of Environmental Health Hazard Assessment identified various indicators of climate change in California, which are scientifically based measurements that track trends in various aspects of climate change. Many indicators reveal discernible evidence that climate change is occurring in California and is having significant, measurable impacts in the state. Changes in the state's climate have been observed, including an increase in annual average air temperature with record warmth from 2012 to 2016, more frequent extreme heat events, more extreme drought, a decline in winter chill, an increase in cooling degree days and a decrease in heating degree days, and an increase in variability of statewide precipitation (OEHHA 2018).

Warming temperatures and changing precipitation patterns have altered California's physical systems—the ocean, lakes, rivers, and snowpack—upon which the state depends. Winter snowpack and spring snowmelt runoff from the Sierra Nevada and southern Cascade Mountains provide approximately one-third of the state's annual water supply. Impacts of climate on physical systems have been observed, such as high variability of snow-water

content (i.e., amount of water stored in snowpack), decrease in snowmelt runoff, glacier change (loss in area), rise in sea levels, increase in average lake water temperature and coastal ocean temperature, and a decrease in dissolved oxygen in coastal waters (OEHHA 2018).

Impacts of climate change on biological systems—humans, wildlife, and vegetation—have also been observed, including climate change impacts on terrestrial, marine, and freshwater ecosystems. As with global observations, species' responses include those consistent with warming: elevational or latitudinal shifts in range, changes in the timing of key plant and animal life-cycle events, and changes in the abundance of species and in community composition. Humans are better able to adapt to a changing climate than plants and animals in natural ecosystems. Nevertheless, climate change poses a threat to public health as warming temperatures and changes in precipitation can affect vector-borne pathogen transmission and disease patterns in California, as well as the variability of heat-related deaths and illnesses. In addition, since 1950, the area burned by wildfires each year has been increasing.

The State of California has released four California Climate Change Assessments (2006, 2009, 2012, and 2018), which have addressed the following: acceleration of warming across the state, more intense and frequent heat waves, greater riverine flows, accelerating sea-level rise, more intense and frequent drought, more severe and frequent wildfires, more severe storms and extreme weather events, shrinking snowpack and less overall precipitation, and ocean acidification, hypoxia, and warming. To address local and regional governments' need for information to support action in their communities, the Fourth California Climate Change Assessment (2018) includes reports for nine regions of the state, including the Inland Deserts Region, where the project is located. Key projected climate change issues for the Inland Deserts Region include the following (Hopkins 2018):

- Extremely high maximum temperatures are expected to occur in the inland deserts.
- The fate of the Salton Sea is a critical determinant of future environmental quality.
- Renewable energy development will have big impacts on the economy and infrastructure.
- Continuing current land use/development patterns (i.e., housing development in the region to compensate for lack of development on the coast) will require increased energy for cooling to compensate for a rise in extreme high temperatures.
- Higher temperatures will exacerbate water stress in a region that is already extremely water-limited.
- Changing water availability is a key determinant of the future for ecological and agricultural systems.
- Population in the inland deserts is highly vulnerable to the effects of climate change.
- Tourism is a major economic driver that is likely to be threatened by a changing climate.

3.4 Significance Criteria and Methodology

3.4.1 Thresholds of Significance

The significance criteria used to evaluate the project's GHG emissions impacts is based on the recommendations provided in Appendix G of the CEQA Guidelines. For the purposes of this GHG emissions analysis, the project would have a significant environmental impact if it would (14 CCR 15000 et seq.):

1. Generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment?
2. Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs?

Global climate change is a cumulative impact; a project participates in this potential impact through its incremental contribution combined with the cumulative increase of all other sources of GHGs. There are currently no established thresholds for assessing whether the GHG emissions of a project, such as the proposed project, would be considered a cumulatively considerable contribution to global climate change; however, all reasonable efforts should be made to minimize a project's contribution to global climate change. In addition, while GHG impacts are recognized exclusively as cumulative impacts (CAPCOA 2008), GHG emissions impacts must also be evaluated on a project-level under CEQA.

The CEQA Guidelines do not prescribe specific methodologies for performing an assessment, do not establish specific thresholds of significance, and do not mandate specific mitigation measures. Rather, the CEQA Guidelines emphasize the lead agency's discretion to determine the appropriate methodologies and thresholds of significance consistent with the manner in which other impact areas are handled in CEQA (CNRA 2009). The State of California has not adopted emission-based thresholds for GHG emissions under CEQA. The Governor's Office of Planning and Research's Technical Advisory, titled Discussion Draft CEQA and Climate Change Advisory, states that (OPR 2018, p.5):

> [N]either the CEQA statute nor the CEQA Guidelines prescribe thresholds of significance or particular methodologies for perming an impact analysis. This is left to lead agency judgment and discretion, based upon factual data and guidance from regulatory agencies and other sources where available and applicable. Even in the absence of clearly defined thresholds for GHG emissions, such emissions must be disclosed and mitigated to the extent feasible whenever the lead agency determines that the project contributes to a significant, cumulative climate change impact.

Furthermore, the advisory document indicates that "in the absence of regulatory standards for GHG emissions or other scientific data to clearly define what constitutes a 'significant impact,' individual lead agencies may undertake a project-by-project analysis, consistent with available guidance and current CEQA practice." Section 15064.7(c) of the CEQA Guidelines specifies that "when adopting thresholds of significance, a lead agency may consider thresholds of significance previously adopted or recommended by other public agencies, or recommended by experts, provided the decision of the lead agency to adopt such thresholds is supported by substantial evidence."

In October 2008, the SCAQMD proposed recommended numeric CEQA significance thresholds for GHG emissions for lead agencies to use in assessing GHG impacts of residential and commercial development projects as presented in its Draft Guidance Document – Interim CEQA Greenhouse Gas (GHG) Significance Threshold (SCAQMD 2008). This guidance document, which builds on the previous guidance prepared by the California Air Pollution Control Officers Association, explores various approaches for establishing a significance threshold for GHG emissions. The draft interim CEQA thresholds guidance document was not adopted or approved by the Governing Board. In December 2008, the SCAQMD adopted an interim 10,000 MT CO_2e per-year screening level threshold for stationary source/industrial projects for which the SCAQMD is the lead agency (see SCAQMD Resolution No. 08-35, December 5, 2008). However, SCAQMD has not adopted a GHG significance threshold for land use development projects such as commercial projects; the proposed commercial/residential thresholds were never formally adopted. Thus, the SCAQMD interim GHG significance threshold is not applicable to the project as the project is a commercial project.

In absence of any adopted numeric threshold, this analysis assess compliance with applicable plans, policies, regulations, and requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation

of GHG emissions. As a land use development project, the most directly applicable adopted regulatory plan to reduce GHG emissions is the 2016 RTP/SCS, which is designed to achieve regional GHG reductions from the land use and transportation sectors as required by SB 375 and the state's long-term climate goals. This analysis also considers consistency with regulations and requirements adopted by the Scoping Plan and the City's CAP.

The City's CAP, which was prepared following CEQA Guidelines Section 15183.5, provides a framework for reducing GHG emissions and managing resources to best prepare for a changing climate. With respect to evaluation of projects under CEQA, the CAP states, "Projects that demonstrate consistency with the strategies, actions, and emission reduction targets contained in the CAP would have a less than significant impacts on climate change" (City of Murrieta 2011c). The purpose of the City's CAP is to guide the development, enhancement, and implementation of actions that would reduce the City's GHG emissions by 15% below existing (2009) levels by 2020. However, the project buildout would be post-2020; thus, consistency with the City's CAP is included for informational purposes only.

3.4.2 Approach and Methodology

3.4.2.1 Construction

CalEEMod Version 2016.3.2 was used to estimate potential project-generated GHG emissions during construction. Construction of the project would result in GHG emissions primarily associated with use of off-road construction equipment, rock-crushing diesel-engine generators, on-road hauling and vendor (material delivery) trucks, and worker vehicles. All details for construction criteria air pollutants discussed in Section 2.4.2.1 are also applicable for the estimation of construction-related GHG emissions. As such, see Section 2.4.2.1 for a discussion of construction emissions calculation methodology and assumptions.

3.4.2.2 Operation

CalEEMod Version 2016.3.2 was used to estimate potential project-generated operational GHG emissions from area sources (landscape maintenance), energy sources (natural gas and electricity), mobile sources, solid waste, and water supply and wastewater treatment. Emissions from each category are discussed in the following text with respect to the project. For additional details, see Section 2.4.2.2, Operational Emissions, for a discussion of operational emission calculation methodology and assumptions, specifically for area, energy (natural gas), and mobile sources. Operational year 2021 was assumed consistent with the project's traffic report.

The project would incorporate the PDFs summarized in Section 1.4, which includes installing electric vehicle–charging stations and solar photovoltaic system on the rooftop.

Area Sources

CalEEMod was used to estimate GHG emissions from the project's area sources, which include operation of gasoline-powered landscape maintenance equipment, which produce minimal GHG emissions. See Section 2.4.2.2, for a discussion of landscaping equipment emissions calculations. Consumer product use and architectural coatings result in VOC emissions, which are analyzed in air quality analysis only, and little to no GHG emissions. Landscaping maintenance equipment would be electric operated with plugs on exteriors of each building to allow for recharging, however, quantified reductions were not included in the analysis.

Energy Sources

The estimation of operational energy emissions was based on CalEEMod land use defaults and total area (i.e., square footage) of the project's land uses. The energy use from nonresidential land uses is calculated in CalEEMod based on the California Commercial End-Use Survey database. Emissions are calculated by multiplying the energy use by the utility carbon intensity (pounds of GHGs per kilowatt-hour for electricity or 1,000 British thermal units for natural gas) for CO_2 and other GHGs. Annual natural gas and electricity emissions were estimated in CalEEMod using the emissions factors for Southern California Edison (SCE), which would be the energy source provider for the project. CalEEMod default assumes compliance with the 2016 Title 24 standards. Although the project would be required to be in compliance with the 2019 Title 24 standards at the time of construction, the analysis conservatively did not assume energy reductions to meet the 2019 Title 24 standards.

The applicant would install solar photovoltaic systems on three building rooftops, and the remaining rooftops would be designed to accommodate the additional structural load of the solar panels to allow for the flexibility for possible future installation.

CalEEMod default energy intensity factors (CO_2, CH_4, and N_2O mass emissions per kilowatt hour) for SCE is based on the value for SCE's energy mix in 2012. As explained in Section 3.2.2, SB X1-2 established a target of 33% from renewable energy sources for all electricity providers in California by 2020 and SB 350 calls for further development of renewable energy, with a target of 50% by 2030. The CO_2 emissions intensity factor for utility energy use in CalEEMod was adjusted consistent with SCE's 2017 Power Content Label, which reported that 32% of the power mix was generated by eligible renewable sources (SCE 2018). Because SCE is striving to meet the 33% RPS by December 31, 2020, the CO_2 emissions intensity factor is anticipated to be less than assumed in CalEEMod at project operation (2021), which would reflect the increase in percentage of renewable energy in SCE's energy portfolio.

Mobile Sources

All details for criteria air pollutants discussed in Section 2.4.2.2 are also applicable for the estimation of operational mobile source GHG emissions.

Regulatory measures related to mobile sources include AB 1493 and related federal standards. AB 1493 required that CARB establish GHG emission standards for automobiles, light-duty trucks, and other vehicles determined by CARB to be vehicles that are primarily used for noncommercial personal transportation in the state. In addition, the NHTSA and EPA have established corporate fuel economy standards and GHG emission standards for automobiles and light-, medium-, and heavy-duty vehicles. Implementation of these standards and fleet turnover (replacement of older vehicles with newer ones) will gradually reduce emissions from the project's motor vehicles. The effectiveness of fuel economy improvements was evaluated by using the CARB EMFAC2017 emission factors for motor vehicles in year 2021.

Bus Routes 23 and 61 serviced by the Riverside Transit Agency would provide residents and employers/employees an alternate mode of transportation to the future commercial/retail center. Adjacent residents to the east of the project site could be able to walk to the project site. Implementation of the project would generate approximately 20 jobs that could be available for residents of the City and surrounding communities. Residents in the City and surrounding communities would also be provided a nearer

commercial/retail center rather than driving to another location. Reductions were quantified by the installation of ten electric vehicle charging stations.

Solid Waste

The project would generate solid waste, and therefore result in CO_2e emissions associated with landfill off-gassing. CalEEMod default values for solid waste generation were used to estimate GHG emissions associated with solid waste. Project compliance with statewide solid waste diversion goals, including the 75% diversion rate by 2020 consistent with AB 341 (25% increase from the solid waste diversion requirements of AB 939, Integrated Waste Management Act), would reduce project-generated GHG emissions associated with solid waste disposal. However, we have conservatively assumed a 50% diversion rate.

The project applicant would provide each tenant with a recycling bin slot in their trash enclosure areas for recycling, however, quantified reductions were not included in the analysis.

Water and Wastewater

Supply, conveyance, treatment, and distribution of water for the project require the use of electricity, which would result in associated indirect GHG emissions. Similarly, wastewater generated by the project requires the use of electricity for conveyance and treatment, along with GHG emissions generated during wastewater treatment. Water consumption estimates for both indoor and outdoor water use and associated electricity consumption from water use and wastewater generation were estimated using CalEEMod default values. It was assumed that wastewater treatment would be 100% aerobic because the project would be in the Eastern Municipal Water District's service area (see Section 4.16.1 Existing Conditions, of the EIR).

3.5 Impact Analysis

3.5.1 Would the project generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?

and

Would the project conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

Construction Emissions

Construction of the project would result in GHG emissions, which are primarily associated with the use of off-road construction equipment, haul trucks, on-road vendor trucks, and worker vehicles. The SCAQMD Draft Guidance Document – Interim CEQA Greenhouse Gas (GHG) Significance Threshold (2009) recommends that "construction emissions be amortized over a 30-year project lifetime, so that GHG reduction measures will address construction

GHG emissions as part of the operational GHG reduction strategies." Thus, the total construction GHG emissions were calculated, amortized over 30 years, and added to the total operational emissions.

CalEEMod was used to calculate the annual GHG emissions based on the construction scenario described in Section 2.4.2.1. Construction of the project is anticipated to commence in February 2021 and reach completion in September 2021, lasting a total of 8 months. On-site sources of GHG emissions include rock-crushing diesel-engine generators, off-road equipment and off-site sources including haul trucks, vendor trucks, and worker vehicles. Table 16 presents construction emissions for the project in 2021 from on-site and off-site emission sources.

Table 16. Estimated Annual Construction Greenhouse Gas Emissions

Year	CO_2	CH_4	N_2O	CO_2e
	Metric Tons			
Construction				
2021	502.18	0.07	0.00	503.84
Rock Crushing				
2021	15.41	0.00	0.00	15.42
Total				
2021	517.58	0.07	0.00	519.27
30-year Amortized Construction Emissions (MT CO_2e per year)				17.31

Notes: CO_2 = carbon dioxide; CH_4 = methane; N_2O = nitrous oxide; CO_2e = carbon dioxide equivalent; MT = metric tons.
See Appendix A for complete results.
The values include emissions from the generators for the rock crushing operation.
Totals may not add due to rounding.

As shown in Table 16, the estimated total GHG emissions during construction of would be approximately 519 MT CO_2e in 2021 over the construction period. Estimated project-generated construction emissions amortized over 30 years would be approximately 17 MT CO_2e per year. As with project-generated construction criteria air pollutant emissions, GHG emissions generated during construction of the project would be short-term in nature, lasting only for the duration of the construction period (8 months), and would not represent a long-term source of GHG emissions.

Operational Emissions

Operation of the project would generate GHG emissions through motor vehicle and delivery truck trips to and from the project site; fuel dispensing operations; landscape maintenance equipment operation; energy use (natural gas and generation of electricity consumed by the project); solid waste disposal; and generation of electricity associated with water supply, treatment, and distribution and wastewater treatment. CalEEMod was used to calculate the annual GHG emissions based on the operational assumptions described in Section 3.4.2.2, Operation.

GHG emission would be reduced due to the installation of a solar photovoltaic system, which would generate a system output of 52,444 kilowatt-hour per year (PV Watts 2019). The estimated operational (year 2021) project-generated GHG emissions from area sources, energy usage, motor vehicles, solid waste generation, and water usage and wastewater generation are shown in Table 17.

Table 17. Estimated Annual Operational Greenhouse Gas Emissions

Emission Source	CO_2	CH_4	N_2O	CO_2e
	metric tons per year			
Area	0.01	<0.01	0.00	0.01
Energy	306.75	0.01	<0.01	308.17
Mobile	5,274.05	0.25	0.19	5,337.48
Solid waste	29.06	1.72	0.00	71.99
Water supply and wastewater	19.79	0.14	<0.01	24.32
Amortized Construction Emissions				*17.31*
Operation plus Amortized Construction Total				**5,759.27**

Notes: CO_2 = carbon dioxide; CH_4 = methane; N_2O = nitrous oxide; CO_2e = carbon dioxide equivalent.
See Appendix A for complete results.
The values shown are the annual emissions reflect California Emissions Estimator Model; reductions for the solar photovoltaic system and installing electric vehicle charging stations; and operational year 2021.
Totals may not add due to rounding.

As shown in Table 17, estimated annual project-generated GHG emissions would be approximately 5,742 MT CO_2e per year as a result of project operations only. Estimated annual project-generated operational emissions in 2021 plus amortized project construction emissions would be approximately 5,759 MT CO_2e per year.

The project's consistency with applicable statewide GHG reduction strategies is summarized in detail in Table 18.

Table 18. Applicable Greenhouse Gas-Related Laws and Regulations

Project Component	Applicable Laws/ Regulations	GHG Reduction Measures Required for Project
Building Components/Facility Operations		
Roofs/Ceilings/Insulation	CALGreen Code (Title 24, Part 11) California Energy Code (Title 24, Part 6)	The project must comply with efficiency standards regarding roofing, ceilings, and insulation. For example: Roofs/Ceilings: New construction must reduce roof heat island effects per CALGreen Code Section 106.11.2, which requires use of roofing materials having a minimum aged solar reflectance, thermal emittance complying with Section A5.106.11.2.2 and A5.106.11.2.3 or a minimum aged Solar Reflectance Index as specified in Tables A5.106.11.2.2, or A5.106.11.2.3. Roofing materials must also meet solar reflectance and thermal emittance standards contained in Title 20 Standards. Roof/Ceiling Insulation: There are also requirements for the installation of roofing and ceiling insulation. (See Title 24, Part 6 Compliance Manual at Section 3.2.2.)
Flooring	CALGreen Code	The project must comply with efficiency standards regarding flooring materials. For example, for 80% of floor area receiving "resilient flooring," the flooring must meet applicable installation and material

Table 18. Applicable Greenhouse Gas-Related Laws and Regulations

Project Component	Applicable Laws/ Regulations	GHG Reduction Measures Required for Project
		requirements contained in CALGreen Code Section 5.504.4.6.
Window and Doors (Fenestration)	California Energy Code	The project must comply with fenestration efficiency requirements. For example, the choice of windows, glazed doors, and any skylights for the project must conform to energy consumption requirements affecting size, orientation, and types of fenestration products used. (See Title 24, Part 6 Compliance Manual, Section 3.3.)
Building Walls/Insulation	CALGreen Code California Energy Code	The project must comply with efficiency requirements for building walls and insulation. Exterior Walls: Must meet requirements in current edition of California Energy Code, and comply with Sections A5.106.7.1 or A5.106.7.2 of CALGreen Code for wall surfaces, as well as Section 5.407.1, which required weather-resistant exterior wall and foundation envelope as required by California Building Code Section 1403.2. Construction must also meet requirements contained in Title 24, Part 6, which vary by material of the exterior walls. (See Title 24, Part 6 Compliance Manual, Part 3.2.3.) Demising (Interior) Walls: Mandatory insulation requirements for demising walls (which separate conditioned from non-conditions space) differ by the type of wall material used. (*Id*. at 3.2.4.) Door Insulation: There are mandatory requirements for air infiltration rates to improve insulation efficiency; they differ according to the type of door. (*Id*. at 3.2.5.) Flooring Insulation: There are mandatory requirements for insulation that depend on the material and location of the flooring. (*Id*. at 3.2.6.)
Finish Materials	CALGreen Code	The project must comply with pollutant control requirements for finish materials. For example, materials including adhesives, sealants, caulks, paints and coatings, carpet systems, and composite wood products must meet requirements in CALGreen Code to ensure pollutant control. (CALGreen Code Section 5.504.4.)
Wet Appliances (Toilets/Faucets/Urinals, Dishwasher/Clothes Washer, Spa and Pool/Water Heater)	CALGreen Code California Energy Code Appliance Efficiency Regulations (Title 20 Standards)	Wet appliances associated with the project must meet various efficiency requirements. For example: Spa and Pool: Use associated with the project is subject to appliance efficiency requirements for service water heating systems and equipment, spa and pool heating systems and equipment. (Title 24, Part 6, Sections 110.3, 110.4, 110.5; Title 20 Standards, Sections 1605.1(g), 1605.3(g); see also California Energy Code.)

Table 18. Applicable Greenhouse Gas-Related Laws and Regulations

Project Component	Applicable Laws/ Regulations	GHG Reduction Measures Required for Project
		Toilets/Faucets/Urinals: Use associated with the project is subject to new maximum rates for toilets, urinals, and faucets effective January 1, 2016: • Showerheads maximum flow rate 2.5 gpm at 80 psi • Wash fountains 2.2 x (rim space in inches/20) gpm at 60 psi • Metering faucets 0.25 gallons/cycle • Lavatory faucets and aerators 1.2 gpm at 60 psi • Kitchen faucets and aerators 1.8 gpm with optional temporary flow of 2.2 gpm at 60 psi • Public lavatory faucets 0.5 gpm at 60 psi • Trough-type urinals 16 inches length • Wall mounted urinals 0.125 gallons per flush • Other urinals 0.5 gallons per flush (Title 20 Standards, Sections 1605.1(h),(i) 1065.3(h),(i).) Water Heaters: Use associated with the project is subject to appliance efficiency requirements for water heaters. (Title 20 Standards, Sections 1605.1(f), 1605.3(f).) Dishwasher/Clothes Washer: Use associated with the project is subject to appliance efficiency requirements for dishwashers and clothes washers. (Title 20 Standards, Sections 1605.1(o),(p),(q), 1605.3(o),(p),(q).)
Dry Appliances (Refrigerator/Freezer, Heater/Air Conditioner, Clothes Dryer)	Title 20 Standards CALGreen Code	Dry appliances associated with the project must meet various efficiency requirements. For example: Refrigerator/Freezer: Use associated with the project is subject to appliance efficiency requirements for refrigerators and freezers. (Title 20 Standards, Sections 1605.1(a), 1605.3(a).) Heater/Air Conditioner: Use associated with the project is subject to appliance efficiency requirements for heaters and air conditioners. (Title 20 Standards, Sections 1605.1(b),(c),(d),(e), 1605.3(b),(c),(d),(e) as applicable.) Clothes Dryer: Use associated with the project is subject to appliance efficiency requirements for clothes dryers. (Title 20 Standards, Section 1605.1(q).)
	CALGreen Code	Installations of HVAC, refrigeration and fire suppression equipment must comply with CALGreen Code Sections 5.508.1.1 and 508.1.2, which prohibits CFCs, halons, and certain HCFCs and HFCs.
Lighting	Title 20 Standards	Lighting associated with the project will be subject to energy efficiency requirements contained in Title 20

Table 18. Applicable Greenhouse Gas-Related Laws and Regulations

Project Component	Applicable Laws/ Regulations	GHG Reduction Measures Required for Project
		Standards. General Lighting: Indoor and outdoor lighting associated with the project must comply with applicable appliance efficiency regulations (Title 20 Standards, Sections 1605.1(j),(k),(n), 1605.3(j),(k),(n).) Emergency lighting and self-contained lighting: the project must also comply with applicable appliance efficiency regulations (Title 20 Standards, Sections 1605.1(l), 1605.3(l).) Traffic Signal Lighting: For any necessary project improvements involving traffic lighting, traffic signal modules and traffic signal lamps will need to comply with applicable appliance efficiency regulations (Title 20 Standards, Sections 1605.1(m), 1605.3(m).)
	California Energy Code	Lighting associated with the project will also be subject to energy efficiency requirements contained in Title 24, Part 6, which contains energy standards for non-residential indoor lighting and outdoor lighting. (See Title 24 Part 6 Compliance Manual, at Sections 5, 6.) Mandatory lighting controls for indoor lighting include, for example, regulations for automatic shut-off, automatic daytime controls, demand responsive controls, and certificates of installation. (Id. at Section 5.) Regulations for outdoor lighting include, for example, creation of lighting zones, lighting power requirements, a hardscape lighting power allowance, requirements for outdoor incandescent and luminaire lighting, and lighting control functionality. (Id. at Section 6.)
	AB 1109	Lighting associated with the project will be subject to energy efficiency requirements adopted pursuant to AB 1109. Enacted in 2007, AB 1109 required the CEC to adopt minimum energy efficiency standards for general purpose lighting, to reduce electricity consumption 50% for indoor residential lighting and 25% for indoor commercial lighting.
Bicycle and Vehicle Parking	CALGreen Code	The project will be required to provide compliant bicycle parking, fuel-efficient vehicle parking, and electric vehicle charging spaces (CALGreen Code Sections 5.106.4, 5.106.5.1, 5.106.5.3)
	California Energy Code	The project is also subject to parking requirements contained in Title 24, Party 6. For example, parking capacity is to meet but not exceed minimum local zoning requirements, and the project should employ approved strategies to reduce parking capacity (Title 24, Part 6, section 106.6)

Table 18. Applicable Greenhouse Gas-Related Laws and Regulations

Project Component	Applicable Laws/ Regulations	GHG Reduction Measures Required for Project
Landscaping	CALGreen Code	The CALGreen Code requires and has further voluntary provisions for: - A water budget for landscape irrigation use; - For new water service, separate meters or submeters must be installed for indoor and outdoor potable water use for landscaped areas of 1,000-5,000 square feet; - Provide water-efficient landscape design that reduces use of potable water beyond initial requirements for plant installation and establishment
	Model Water Efficient Landscaping Ordinance	The model ordinance promotes efficient landscaping in new developments and establishes an outdoor water budget for new and renovated landscaped areas that are 500 square feet or larger. (CCR, Title 23, Division 2, Chapter 2.7.)
	Cap-and-Trade Program	Transportation fuels used in landscape maintenance equipment (e.g., gasoline) would be subject to the Cap-and-Trade Program. (See "Energy Use," below.)
Refrigerants	CARB Management of High GWP Refrigerants for Stationary Sources	Any refrigerants associated with the project will be subject to CARB standards. CARB's Regulation for the Management of High GWP Refrigerants for Stationary Sources 1) reduces emissions of high-GWP refrigerants from leaky stationary, non-residential refrigeration equipment; 2) reduces emissions resulting from the installation and servicing of stationary refrigeration and air conditioning appliances using high-GWP refrigerants; and 3) requires verification GHG emission reductions. (CCR, Title 17, Division 3, Chapter 1, Subchapter 10, Article 4, Subarticle 5.1, Section 95380 et seq.)
Consumer Products	CARB High GWP GHGs in Consumer Products	All consumer products associated with the project will be subject to CARB standards. CARB's consumer products regulations set VOC limits for numerous categories of consumer products, and limits the reactivity of the ingredients used in numerous categories of aerosol coating products (CCR, Title 17, Division 3, Chapter 1, Subchapter 8.5.)
Construction		
Use of Off-Road Diesel Engines, Vehicles, and Equipment	CARB In-Use Off-Road Diesel Vehicle Regulation	Any relevant vehicle or machine use associated with the project will be subject to CARB standards. The CARB In-Use-Off-Road Diesel Vehicle Regulation applies to certain off-road diesel engines, vehicles, or equipment greater than 25 horsepower. The regulation: 1) imposes limits on idling, requires a written idling policy, and requires a disclosure when selling vehicles; 2) requires all vehicles to be reported to CARB (using the Diesel Off-Road Online Reporting

Table 18. Applicable Greenhouse Gas-Related Laws and Regulations

Project Component	Applicable Laws/ Regulations	GHG Reduction Measures Required for Project
		System) and labeled; 3) restricts the adding of older vehicles into fleets starting on January 1, 2014; and 4) requires fleets to reduce their emissions by retiring, replacing, or repowering older engines, or installing Verified Diesel Emission Control Strategies (i.e., exhaust retrofits). The requirements and compliance dates of the Off-Road regulation vary by fleet size, as defined by the regulation.
	Cap-and-Trade Program	Transportation fuels (e.g., gasoline) used in equipment operation would be subject to the Cap-and-Trade Program. (See "Energy Use," below.)
Greening New Construction	CALGreen Code	All new construction, including the project, must comply with CALGreen Code, as discussed in more detail throughout this table. Adoption of the mandatory CALGreen Code standards for construction has been essential for improving the overall environmental performance of new buildings; it also sets voluntary targets for builders to exceed the mandatory requirements.
Construction Waste	CALGreen Code	The project will be subject to CALGreen Code requirements for construction waste reduction, disposal, and recycling, such as a requirement to recycle and/or salvage for reuse a minimum of 50% of the non-hazardous construction waste in accordance with Section 5.408.1.1, 5.408.1.2, or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent.
Worker, vendor and truck vehicle trips (on-road vehicles)	Cap-and-Trade Program	Transportation fuels (e.g., gasoline) used in worker, vendor and truck vehicle trips would be subject to the Cap-and-Trade Program.
Solid Waste		
Solid Waste Management	Landfill Methane Control Measure	Waste associated with the project will be disposed per state requirements for landfills, material recovery facilities, and transfer stations. Per the statewide GHG emissions inventory, the largest emissions from waste management sectors come from landfills, and are in the form of CH_4. In 2010, CARB adopted a regulation that reduces emissions from methane in landfills, primarily by requiring owners and operators of certain uncontrolled municipal solid waste landfills to install gas collection and control systems, and requires existing and newly installed gas and control systems to operate in an optimal manner. The regulation allows local air districts to voluntarily enter into a

Table 18. Applicable Greenhouse Gas-Related Laws and Regulations

Project Component	Applicable Laws/ Regulations	GHG Reduction Measures Required for Project
		memorandum of understanding with CARB to implement and enforce the regulation and to assess fees to cover costs of implementation.
	Mandatory Commercial Recycling (AB 341)	AB 341 will require the project, if it generates four cubic yards or more of commercial solid waste per week, to arrange for recycling services, using one of the following: self-haul; subscribe to a hauler(s); arranging for pickup of recyclable materials; subscribing to a recycling service that may include mixed waste processing that yields diversion results comparable to source separation. The project will also be subject to local commercial solid waste recycling program required to be implemented by each jurisdiction under AB 341.
	CALGreen Code	The project will be subject to CALGreen Code requirement to provide areas that serve the entire building and are identified for the depositing, storage and collection of nonhazardous materials for recycling (CALGreen Code Section 5.410.1)
Energy Use		
Electricity/Natural Gas Generation	Cap-and-Trade Program	Electricity and natural gas usage associated with the project will be subject to the Cap-and-Trade Program. The rules came into effect on January 1, 2013, applying to large electric power plants and large industrial plants. In 2015, importers and distributors of fossil fuels were added to the Cap-and-Trade Program in the second phase. Specifically, on January 1, 2015, cap-and-trade compliance obligations were phased in for suppliers of natural gas, reformulated gasoline blendstock for oxygenate blending (RBOB), distillate fuel oils, and liquefied petroleum gas that meet or exceed specified emissions thresholds. The threshold that triggers a cap-and-trade compliance obligation for a fuel supplier is 25,000 metric tons or more of CO_2e annually from the GHG emissions that would result from full combustion or oxidation of quantities of fuels (including natural gas, RBOB, distillate fuel oil, liquefied petroleum gas, and blended fuels that contain these fuels) imported and/or delivered to California.
Renewable Energy	California RPS (SB X1-2, SB 350, and SB 100)	Energy providers associated with the project will be required to comply with RPS set by SB X1-2, SB 350, and SB 100. SB X1-2 requires investor-owned utilities, publicly-owned utilities, and electric service providers to increase purchases of renewable energy such that at

Table 18. Applicable Greenhouse Gas-Related Laws and Regulations

Project Component	Applicable Laws/ Regulations	GHG Reduction Measures Required for Project
		least 33% of retail sales are procured from renewable energy resources by December 31, 2020. In the interim, each entity was required to procure an average of 20% of renewable energy for the period of January 1, 2011 through December 31, 2013; and will be required to procure an average of 25% by December 31, 2016, and 33% by 2020. SB 350 requires retail sellers and publicly owned utilities to procure 50% of their electricity from eligible renewable energy resources by 2030. SB 100 increased the standards set forth in SB 350 establishing that 44% of the total electricity sold to retail customers in California per year by December 31, 2024, 52% by December 31, 2027, and 60% by December 31, 2030, be secured from qualifying renewable energy sources. SB 100 states that it is the policy of the state that eligible renewable energy resources and zero-carbon resources supply 100% of the retail sales of electricity to California by 2045.
	Million Solar Roofs Program (SB 1)	The project will participate in California's energy market, which is affected by implementation of the Million Solar Roofs Program. As part of Governor Schwarzenegger's Million Solar Roofs Program, California has set a goal to install 3,000 megawatts of new, solar capacity through 2016. The Million Solar Roofs Program is a ratepayer-financed incentive program aimed at transforming the market for rooftop solar systems by driving down costs over time.
	California Solar Initiative-Thermal Program	The project will participate in California's energy market, which is affected by implementation of the California Solar Initiative -Thermal Program. The program offers cash rebates of up to $4,366 on solar water heating systems for single-family residential customers. Multifamily and Commercial properties qualify for rebates of up to $800,000 on solar water heating systems and eligible solar pool heating systems qualify for rebates of up to $500,000. Funding for the California Solar Initiative-Thermal program comes from ratepayers of Pacific Gas & Electric, SCE, Southern California Gas Company, and San Diego Gas & Electric. The rebate program is overseen by the CPUC as part of the California Solar Initiative.
	Waste Heat and Carbon Emissions Reduction Act (AB 1613, AB 2791)	The project will participate in California's energy market, which is affected by implementation of the Waste Heat and Carbon Emissions Reduction Act. Originally enacted in 2007 and amended in 2008,

Table 18. Applicable Greenhouse Gas-Related Laws and Regulations

Project Component	Applicable Laws/ Regulations	GHG Reduction Measures Required for Project
		this act directed the CEC, CPUC, and CARB to implement a program that would encourage the development of new combined heat and power systems in California with a generating capacity of not more than 20 megawatts, to increase combined heat and power use by 30,000 gigawatt-hour. The CPUC publicly owned electric utilities, and CEC duly established policies and procedures for the purchase of electricity from eligible combined heat and power systems. CEC guidelines require combined heat and power systems to be designed to reduce waste energy; have a minimum efficiency of 60%; have NO_x emissions of no more than 0.07 pounds per megawatt-hour; be sized to meet eligible customer generation thermal load; operate continuously in a manner that meets expected thermal load and optimizes efficient use of waste heat; and be cost effective, technologically feasible, and environmentally beneficial.
Vehicular/Mobile Sources		
General	SB 375 and SCAG RTP/SCS	The project complies with, and is subject to, the SCAG adopted RTP/SCS, which CARB approved as meeting its regional GHG targets in 2016.
Fuel	Low Carbon Fuel Standard (LCFS)/ EO S-01-07	Auto trips associated with the project will be subject to LCFS (EO S-01-07), which requires a 10% or greater reduction in the average fuel carbon intensity by 2020 with a 2010 baseline for transportation fuels in California regulated by CARB. The program establishes a strong framework to promote the low carbon fuel adoption necessary to achieve the Governor's 2030 and 2050 GHG goals.
	Cap-and-Trade Program	Use of gasoline associated with the project will be subject to the Cap-and-Trade Program. The rules came into effect on January 1, 2013, applying to large electric power plants and large industrial plants. In 2015, importers and distributors of fossil fuels were added to the Cap-and-Trade Program in the second phase. Specifically, on January 1, 2015, cap-and-trade compliance obligations were phased in for suppliers of natural gas, RBOB, distillate fuel oils, and liquefied petroleum gas that meet or exceed specified emissions thresholds. The threshold that triggers a cap-and-trade compliance obligation for a fuel supplier is 25,000 MT or more of CO_2e annually from the GHG emissions that would result from full combustion or oxidation of quantities of fuels (including natural gas, RBOB, distillate fuel oil,

Table 18. Applicable Greenhouse Gas-Related Laws and Regulations

Project Component	Applicable Laws/ Regulations	GHG Reduction Measures Required for Project
		liquefied petroleum gas, and blended fuels that contain these fuels) imported and/or delivered to California.
Automotive Refrigerants	CARB Regulation for Small Containers of Automotive Refrigerant	Vehicles associated with the project will be subject to CARB's Regulation for Small Containers of Automotive Refrigerant. (CCR, Title 17, Division 3, Chapter 1, Subchapter 10, Article 4, Subarticle 5, Section 95360 et seq.) The regulation applies to the sale, use, and disposal of small containers of automotive refrigerant with a GWP greater than 150. The regulation achieves emission reductions through implementation of four requirements: 1) use of a self-sealing valve on the container, 2) improved labeling instructions, 3) a deposit and recycling program for small containers, and 4) an education program that emphasizes best practices for vehicle recharging. This regulation went into effect on January 1, 2010 with a one-year sell-through period for containers manufactured before January 1, 2010. The target recycle rate is initially set at 90%, and rises to 95% beginning January 1, 2012.
Light-Duty Vehicles	AB 1493 (or the Pavley Standard)	Cars that drive to and from the project will be subject to AB 1493, which directed CARB to adopt a regulation requiring the maximum feasible and cost effective reduction of GHG emissions from new passenger vehicles. Pursuant to AB 1493, CARB adopted regulations that establish a declining fleet average standard for CO_2, CH_4, N_2O, and HFCs (air conditioner refrigerants) in new passenger vehicles and light-duty trucks beginning with the 2009 model year and phased-in through the 2016 model year. These standards are divided into those applicable to lighter and those applicable to heavier portions of the passenger vehicle fleet. The regulations will reduce "upstream" smog-forming emissions from refining, marketing, and distribution of fuel.
	Advanced Clean Car and ZEV Programs	Cars that drive to and from the project will be subject to the Advanced Clean Car and ZEV Programs. In January 2012, CARB approved a new emissions-control program for model years 2017 through 2025. The program combines the control of smog, soot and global warming gases and requirements for greater numbers of zero-emission vehicles into a single package of standards called Advanced Clean Cars. By 2025, new automobiles will emit 34% fewer global warming gases and 75% fewer smog-forming emissions.

Table 18. Applicable Greenhouse Gas-Related Laws and Regulations

Project Component	Applicable Laws/ Regulations	GHG Reduction Measures Required for Project
		The ZEV program will act as the focused technology of the Advanced Clean Cars program by requiring manufacturers to produce increasing numbers of ZEVs and plug-in hybrid electric vehicles in the 2018-2025 model years.
	Tire Inflation Regulation	Cars that drive to and from the project will be subject to the CARB Tire Inflation Regulation, which took effect on September 1, 2010, and applies to vehicles with a gross vehicle weight rating of 10,000 pounds or less. Under this regulation, automotive service providers must, inter alia, check and inflate each vehicle's tires to the recommended tire pressure rating, with air or nitrogen, as appropriate, at the time of performing any automotive maintenance or repair service, and to keep a copy of the service invoice for a minimum of three years, and make the vehicle service invoice available to the CARB, or its authorized representative upon request.
	EPA and NHTSA GHG and CAFE standards.	Mobile sources that travel to and from the project would be subject to EPA and NHTSA GHG and CAFE standards for passenger cars, light-duty trucks, and medium-duty passenger vehicles. (75 FR 25324–25728 and 77 FR 62624–63200.)
Medium- and Heavy-Duty Vehicles	CARB In-Use On-Road Heavy-Duty Diesel Vehicles Regulation (Truck and Bus Regulation)	Any heavy-duty trucks associated with the project will be subject to CARB standards. The regulation requires diesel trucks and buses that operate in California to be upgraded to reduce emissions. Newer heavier trucks and buses must meet PM filter requirements. Lighter and older heavier trucks must be replaced starting January 1, 2015. By January 1, 2023, nearly all trucks and buses will need to have 2010 model year engines or equivalent. The regulation applies to nearly all privately and federally owned diesel fueled trucks and buses and to privately and publicly owned school buses with a gross vehicle weight rating greater than 14,000 pounds.
	CARB In-Use Off-Road Diesel Vehicle Regulation	Any relevant vehicle or machine use associated with the project will be subject to CARB standards. The CARB In-Use-Off-Road Diesel Vehicle Regulation applies to certain off-road diesel engines, vehicles, or equipment greater than 25 horsepower. The regulations: 1) imposes limits on idling, requires a written idling policy, and requires a disclosure when selling vehicles; 2) requires all vehicles to be reported to CARB (using the Diesel Off-Road Online Reporting System) and labeled; 3) restricts the adding of older

Table 18. Applicable Greenhouse Gas-Related Laws and Regulations

Project Component	Applicable Laws/ Regulations	GHG Reduction Measures Required for Project
		vehicles into fleets starting on January 1, 2014; and 4) requires fleets to reduce their emissions by retiring, replacing, or repowering older engines, or installing Verified Diesel Emission Control Strategies (i.e., exhaust retrofits). The requirements and compliance dates of the Off-Road regulation vary by fleet size, as defined by the regulation.
	Heavy-Duty Vehicle GHG Emission Reduction Regulation	Any relevant vehicle or machine use associated with the project will be subject to CARB standards. The CARB Heavy-Duty Vehicle GHG Emission Reduction Regulation applies to heavy-duty tractors that pull 53-foot or longer box-type trailers. (CCR, Title 17, Division 3, Chapter 1, Subchapter 10, Article 4, Subarticle 1, Section 95300 et seq.) Fuel efficiency is improved through improvements in tractor and trailer aerodynamics and the use of low rolling resistance tires.
	EPA and NHTSA GHG and CAFE standards.	Mobile sources that travel to and from the project would be subject to EPA and NHTSA GHG and CAFE standards for medium- and heavy-duty vehicles. (76 FR 57106–57513.)
Water Use		
Water Use Efficiency	Emergency State Water Board Regulations	Water use associated with the project will be subject to emergency regulations. On May 18, 2016, partially in response to EO B-27-16, the State Water Board adopted emergency water use regulations (CCR, title 23, Section 864.5 and amended and re-adopted Sections 863, 864, 865, and 866). The regulation directs the State Water Board, Department of Water Resources, and CPUC to implement rates and pricing structures to incentivize water conservation, and calls upon water suppliers, homeowners' associations, California businesses, landlords and tenants, and wholesale water agencies to take stronger conservation measures.
	EO B-37-16	Water use associated with the project will be subject to Emergency EO B-37-16, issued May 9, 2016, which directs the State Water Resources Control Board to adjust emergency water conservation regulations through the end of January, 2017 to reflect differing water supply conditions across the state. The Water Board must also develop a proposal to achieve a mandatory reduction of potable urban water usage that builds off the mandatory 25% reduction called for in EO B-29-15. The Water Board and Department of Water Resources will develop new,

Table 18. Applicable Greenhouse Gas-Related Laws and Regulations

Project Component	Applicable Laws/ Regulations	GHG Reduction Measures Required for Project
		permanent water use targets to which the project will be subject. The Water Board will permanently prohibit water-wasting practices such as hosing off sidewalks, driveways, and other hardscapes; washing automobiles with hoses not equipped with a shut-off nozzle; using non-recirculated water in a fountain or other decorative water feature; watering lawns in a manner that causes runoff, or within 48 hours after measurable precipitation; and irrigating ornamental turf on public street medians.
	EO B-40-17	EO B-40-17 lifted the drought emergency in all California counties except Fresno, Kings, Tulare, and Tuolumne. It also rescinds EO B-29-15, but expressly states that EO B-37-16 remains in effect and directs the State Water Resources Control Board to continue development of permanent prohibitions on wasteful water use to which the project will be subject.
	SB X7-7	Water provided to the project will be affected by SB X7-7's requirements for water suppliers. SB X7-7, or the Water Conservation Act of 2009, requires all water suppliers to increase water use efficiency. It also requires, among other things, that the Department of Water Resources, in consultation with other state agencies, develop a single standardized water use reporting form, which would be used by both urban and agricultural water agencies.
	CALGreen Code	The project is subject to CALGreen Code's water efficiency standards, including a required 20% mandatory reduction in indoor water use. (CALGreen Code, Division 4.3.)
	California Water Code, Division 6, Part 2.10, Sections 10910–10915.	Development and approval of the project requires the development of a project-specific Water Supply Assessment.
	Cap-and-Trade Program	Electricity usage associated with water and wastewater supply, treatment and distribution would be subject to the Cap-and-Trade Program.
	California RPS (SB X1-2, SB 350, SB 100)	Electricity usage associated with water and wastewater supply, treatment and distribution associated with the project will be required to comply with RPS set by SB X1-2, SB 350, and SB 100.
Water Recycling	Water Reclamation Requirements for Recycled Water Use. State Water Resources Control Board Order WQ 2016-0068-DDW	These requirements replace 2014-0090-DWQ General Waste Discharge Requirements for Recycled Water Use, and establish standard conditions for recycled water use and conditionally delegates authority to an Administrator to manage a Water Recycling Program and issue Water Recycling Permits

Table 18. Applicable Greenhouse Gas-Related Laws and Regulations

Project Component	Applicable Laws/ Regulations	GHG Reduction Measures Required for Project
		to recycled water users. Only treated municipal wastewater for non-potable uses can be permitted, such as landscape irrigation, crop irrigation, dust control, industrial/commercial cooling, decorative fountains, etc. Potable reuse is not covered.
	Regulations for Groundwater Replenishment Using Recycled Water	This emergency rulemaking by the California Department of Public Health (California Title of Regulations, Title 22, Sections 60301.050 et seq.), effective June 18, 2014, applied to Groundwater Replenishment Reuse projects utilizing surface application, which received initial permits from the Regional Board. The regulations address permitting and plan approval, sampling requirements, operation requirements, and ongoing reporting requirements.
	Policy for Water Quality Control for Recycled Water. State Water Resources Control Board Resolution No. 2009-0011, as amended by Resolution No. 2013-0003	The project would be subject to the State Water Resources Control Board statewide mandate to increase recycled water usage by 0.2 million acre-feet per year by 2020. However, recycled water is not currently available at the project site.

Notes: AB = Assembly Bill; CARB = California Air Resources Board; CEC = California Energy Commission; CFC = chlorofluorocarbon; CH_4 = methane; CO_2 = carbon dioxide; CO_2e = carbon dioxide equivalent; CPUC = California Public Utilities Commission; EO = Executive Order; EPA = Environmental Protection Agency; GHG = greenhouse gas; GWP = global warming potential; HCFC = hydrochlorofluorocarbon; HFC = hydrofluorocarbon; gpm = gallons per minute; MT = metric tons; N_2O = nitrous oxide; NHTSA = National Highway Traffic Safety Administration; PM = particulate matter; RPS = Renewable Portfolio Standard; RTP/SCS = Regional Transportation Plan/Sustainable Communities Strategy; SB = Senate Bill; SCAG = Southern California Association of Governments; VOC = volatile organic compound; ZEV = zero emission vehicle.

As shown, the project would be consistent with and would not conflict with the applicable GHG-reducing strategies of the state.

As part of the City's General Plan, the City has adopted a CAP on July 11, 2011, which was prepared following CEQA Guidelines Section 15183.5. The City's CAP is not qualified for projects buildout year post-2020, thus consistency with the City's CAP is included for disclosure. As previously mentioned, the City has not established a significance threshold under the City's CAP, but the CAP noted that projects that demonstrate consistency with the goals, strategies, actions, and emission reduction targets contained in the City's CAP would have a less-than-significant impact on climate change. To achieve the City's GHG emission reductions, the City's CAP includes seven reduction strategies for each category of GHG emissions (i.e., transportation, energy and water consumption, and waste disposal). Table 19 describes the project's consistency with those strategies.

Table 19. Consistency with City of Murrieta's Climate Action Plan Strategies

Climate Action Strategies	Project Consistency
Community Involvement Strategy. The community involvement strategy is intended to foster a sense of ownership of the ideas and actions to be carried out within the City. To create a successful plan that is supported by the community, who will ultimately make these changes.	*Not applicable.* This strategy does not apply to the project.
Land Use and Community Vision Strategy. The land use and community vision strategy encourages changes in the land use pattern to enable residents to reduce dependence on their cars to get around town.	*Consistent.* Bus Routes 23 and 61 serviced by the Riverside Transit Agency would provide residents and employers/employees an alternate mode of transportation to the future commercial/retail center. Residents surrounding the project site could be able to walk to the project site. Residents in the City and surrounding communities would also be provided a nearer retail center rather than driving to another location.
Transportation and Mobility Strategy. The transportation and mobility strategy identifies opportunities to improve mobility such as walking, bicycling, and transit use, and to decrease the need to drive.	*Consistent.* Bus Routes 23 and 61 serviced by the Riverside Transit Agency would provide residents and employers/employees an alternate mode of transportation to the future commercial/retail center. Residents surrounding the project site could be able to walk to the project site. Residents in the City and surrounding communities would also be provided a nearer retail center rather than driving to another location.
Energy Use and Conservation Strategy. The energy use and efficiency strategy recommends ways to increase energy efficiency in existing buildings, enhance energy performance for new construction, and increase use of renewable energy.	*Consistent.* The project would include PDF-AQ/GHG-1 that would reduce energy use and increase energy efficiency, including operating electric-powered landscaping maintenance equipment, providing recycling bins for tenants, installing EV charging stations, installing solar photovoltaic systems, and designing solar ready roofs on the remaining rooftops.
Water Use and Efficiency Strategy. The intent of this strategy is to conserve water through efficient use and conservation.	*Consistent.* The project would include PDF-AQ/GHG-1 that would conserve water, including planting drought-tolerant vegetation and water-efficient irrigation system.
Waste Reduction and Recycling Strategy. The strategy builds on past City successes by increasing waste diversion, reducing consumption of materials that otherwise end up in landfills, and increasing recycling.	*Consistent.* All non-hazardous solid waste generated from the project site once operational (e.g., plastic and glass bottles and jars, paper, newspaper, metal containers, and cardboard) would be recycled to the greatest extent possible.
Open Space Strategy. This strategy expands the utilization of open space areas for habitat, storm water management, soil retention, air filtration, and cooling, aesthetic and economic value, local food security, increased and improved parks, preservation, and to create new open spaces.	*Not applicable.* Per the City's General Plan, the project area was not zoned as an open space land use type (e.g., park), and the project area does not include elements (e.g., creek, designated trail) that would require open space designation. The project includes outdoor eating and seating areas for customers and employees.

Source: City of Murrieta 2011c.
Notes: HVAC = heating, ventilation, and air conditioning; EV = electric vehicle.

Each of the City's CAP strategies described above includes goals to identify ways to reduce GHG emissions. For informational purposes, the project is shown to be consistent with the strategies in the CAP.

Table 20 describes the project's consistency with applicable goals.

Table 20. Consistency with City of Murrieta's Applicable Climate Action Plan Strategy Goals

Climate Action Strategy Goals	Project Consistency
Community Involvement Strategy	
Increase Public Education Goal CIR-6: Alternative travel modes and facilities are available to serve residents and employers/employees and reduce vehicle miles traveled.	*Consistent.* Bus Routes 23 and 61 serviced by the Riverside Transit Agency would provide residents and employers/employees an alternate mode of transportation to the future commercial/retail center. Residents surrounding the project site could be able to walk to the project site. Residents in the City and surrounding communities would also be provided a nearer retail center rather than driving to another location.
Green the City Operations Goal CSV-15. A community taking a leadership role in resource conservation and reduction of GHG by implementing programs to improve municipal operations.	*Not applicable.* This goal does not apply to the project.
Green the City Fleet Goal HC-1: Application of innovative and model best practices in the community health field.	*Not applicable.* This goal does not apply to the project.
Land Use and Community Vision Strategy	
Balance of Land Uses to Reduce Vehicles Miles Traveled Goal LU-1: A complementary balance of land uses throughout the community that meets the needs of existing residents and businesses as well as anticipated growth, and achieves the community's vision.	*Consistent.* The project site is designated Commercial in the General Plan and the zoning is Regional Commercial, so the proposed project is consistent with the General Plan land use and zoning designation for the site. By locating a regional retail center here, it would reduce vehicle miles traveled in the community and in the region as residents currently travel greater distance elsewhere. It would also provide additional employment opportunities in the City, which reduces vehicle miles traveled for residents who may otherwise be traveling outside the City for these retail jobs.
Improve Jobs/Housing Balance Goal LU-4: A housing stock that meets the diverse needs of Murrieta's existing and future residents.	*Consistent.* By providing additional employment opportunities within the City, this project would improve the jobs/housing imbalance.
Improve Jobs/Housing Balance Goal LU-5: Promotion of quality industrial development that provides local employment opportunities.	*Not applicable.* This goal does not apply to the project.
Improve Jobs/Housing Balance Goal LU-6: Land use policy that encourages job retention and attraction.	*Consistent.* The project would generate approximately 20 jobs for residents in the City and surrounding communities.
Transit Oriented Development Goal LU-7: Economically viable, vital, and attractive commercial centers throughout the City that serve the needs of the community.	*Consistent.* Bus Routes 23 and 61 serviced by the Riverside Transit Agency would provide residents and employers/employees an alternate mode of transportation to the future commercial/retail center. Residents surrounding the project site could be able to walk to the project site. Residents in the City and surrounding communities would also be provided a nearer retail center rather than driving to another location.

Table 20. Consistency with City of Murrieta's Applicable Climate Action Plan Strategy Goals

Climate Action Strategy Goals	Project Consistency
Transit Oriented Development Goal LU-8: A community that provides opportunities for mixed use and/or transit-oriented development.	*Not applicable.* This goal does not apply to the project.
Pedestrian-Friendly Environment Goal LU-9: Land use patterns and urban design that support healthy and sustainable lifestyles and businesses.	*Consistent.* The project would include PDF-AQ/GHG-1 that would generate renewable energy and conserve water that would help reduce environmental impacts.
Pedestrian-Friendly Environment Goal LU-10: A community that provides pedestrian-friendly environments for residential, commercial, business, and recreation uses.	*Consistent.* The project site would be accessible for bicycles and pedestrians. Sidewalks would be constructed to ensure connectivity and easy access from adjacent streets and neighboring properties.
Sustainable Economy Goal ED-3: A sound, stable, and diversified economic base.	*Consistent.* The project would generate approximately 20 jobs for residents in the City and surrounding communities, consistent with the City's economic development strategy.
Sustainable Economy Goal ED-4: Positive balance between the supply of retail opportunities and demand for goods and services will reduce the need to travel outside the City.	*Consistent.* Residents in the City and surrounding communities would be provided a nearer commercial/retail center rather than driving to another location.
Improve Jobs/Housing Balance Goal ED-5: An improved jobs/housing balance.	*Consistent.* The project would generate approximately 20 jobs for residents in the City and surrounding communities.
Improve Jobs/Housing Balance Goal ED-6: An educated and highly-skilled labor force.	*Consistent.* The project would generate approximately 20 jobs for residents in the City and surrounding communities. The project would provide highly skilled employment opportunities, including the managerial staff.
Improve Jobs/Housing Balance Goal ED-8: Strategic approach to economic growth.	*Consistent.* The project would generate approximately 20 jobs for residents in the City and surrounding communities. The project would increase sales tax generated by the goods sold at the project site.
Sustainable Economy Goal ED-10: A revitalized and economically stable Historic Downtown Murrieta.	*Not applicable.* This goal does not apply to the project.
Green Economy Goal AQ-6: Stationary source pollution (point source and area source) are minimized through existing and future regulations and new technology.	*Not applicable.* This goal does not apply to the project.
Transportation and Mobility Strategy	
Increase Trail Connectivity Goal LU-22: Natural and visual resources are valued resources to maintain the rural character of the Los Alamos Hills.	*Not applicable.* This goal does not apply to the project.
Reduce Driving Goal LU-24: Historic Murrieta as the City's cultural, civic, and community center.	*Not applicable.* This goal does not apply to the project.

Table 20. Consistency with City of Murrieta's Applicable Climate Action Plan Strategy Goals

Climate Action Strategy Goals	Project Consistency
Support High Speed Rail Goal LU-25: Collaboration with Federal, State, County, and other regional agencies and authorities to ensure compliance with existing and future legislation that affects the City of Murrieta.	*Not applicable.* This goal does not apply to the project.
Support Multi-Modal Transportation Goal CIR-1: A circulation system that serves the internal circulation needs of the City, while also addressing the inter-community or through travel needs.	*Not applicable.* This goal does not apply to the project.
Promote Pedestrian Safety Goal CIR-2: A comprehensive circulation system that promotes safety.	*Consistent.* Proposed project driveways and internal circulation elements have been designed to reflect the specific opportunities and constraints within the project site with safety in mind. All intersections, circulation improvements, and access to the site would be designed consistent with City roadway standards and would not create a hazard for vehicles, bicycles, or pedestrians entering or exiting the site. Sidewalks would be constructed to ensure connectivity and easy access from adjacent streets and neighboring properties.
Improve Public Transportation Goal CIR-5: A supported regional transportation system that serves existing and future travel between Murrieta and other population and employment centers within southwest Riverside County and the larger region, and that accommodates the regional travel needs of developing areas outside the City.	*Consistent.* Bus Routes 23 and 61 serviced by the Riverside Transit Agency would provide residents and employers/employees an alternate mode of transportation to the future commercial/retail center.
Reduce Driving Goal CIR-6: Alternative travel modes and facilities are available to serve residents and employers/employees and reduce vehicle miles traveled.	*Consistent.* Bus Routes 23 and 61 serviced by the Riverside Transit Agency would provide residents and employers/employees an alternate mode of transportation to the future commercial/retail center. Residents surrounding the project site could be able to walk to the project site. Residents in the City and surrounding communities would also be provided a nearer commercial/retail center rather than driving to another location. Furthermore, under PDF-AQ/GHG-1, the project would install EV charging stations.
Increase Walking Goal CIR-7: Residential areas and activity centers are accessible to all pedestrians, including persons with disabilities or having special accessibility needs.	*Not applicable.* This goal does not apply to the project.
Increase Trail Connectivity Goal CIR-8: Development, expansion, and maintenance of a network of bicycle, pedestrian, and multi-use trails that allows residents to travel between parks, schools, neighborhoods, and other major destinations without driving.	*Not applicable.* This goal does not apply to the project.

Table 20. Consistency with City of Murrieta's Applicable Climate Action Plan Strategy Goals

Climate Action Strategy Goals	Project Consistency
Goal AQ-4: Mobile source emissions are reduced by providing a balance of jobs and housing that serve the needs of the community.	*Consistent.* Implementation of the project would generate approximately 20 jobs that could be available for residents of the City and surrounding communities. Residents in the City and surrounding communities would also be provided a nearer commercial/retail center rather than driving to another location.
Improve Air Quality by Reducing Driving Goal AQ-5: Air quality is improved through an efficient circulation system, reduced traffic congestion, and reduced vehicle miles traveled.	*Consistent.* Bus Routes 23 and 61 serviced by the Riverside Transit Agency would provide residents and employers/employees an alternate mode of transportation to the future commercial/retail center. Residents surrounding the project site could be able to walk to the project site. Residents in the City and surrounding communities would also be provided a nearer commercial/retail center rather than driving to another location. The project site would be accessible for bicycles and pedestrians. Sidewalks would be constructed to ensure connectivity and easy access from adjacent streets and neighboring properties.
Energy Use and Conservation Strategy	
Renewable Energy and Efficiency Goal CSV-12: Energy conservation and the generation of energy from renewable sources is prioritized as part of an overall strategy to reduce greenhouse gas emissions.	*Consistent.* The project would include PDF-AQ/GHG-1 that would reduce energy use and increase energy efficiency, including the installation of solar photovoltaic systems and designing solar ready roofs.
Green Building Goal CSV-14: A community that encourages and incentivizes the sustainable development of buildings and neighborhoods, particularly with respect to durability, energy and water use, and transportation impacts.	*Consistent.* The project would include PDF-AQ/GHG-1 that would reduce vehicle idling by providing electric plug-ins at loading docks for delivery trucks and installation of electric vehicle charging stations and preferred parking encouraging electric vehicle/clean air/vanpools that would help reduce environmental impacts.
Energy Efficient Design Goal 2: Conserve and enhance the quality of existing housing and residential neighborhoods in Murrieta.	*Not applicable.* This goal does not apply to the project.
Water Use and Efficiency Strategy	
Increase Use of Recycled Water Goal INF-2: Infrastructure for recycled water is expanded throughout Murrieta for irrigation and other non-potable uses.	*Not applicable.* Recycled water is not available to the site; however, the project would install non-potable irrigation lines in preparation for recycled water becoming available in the future as implemented under PDF-AQ/GHG-1.
Increase Water Conservation Goal CSV-1: A community that conserves, protects, and manages water resources to meet long-term community needs, including surface waters, groundwater, imported water supplies, storm water, and waste water.	*Consistent.* The project would include project design features that would conserve water including planting drought-tolerant vegetation and water-efficient irrigation system. The project has been designed to include landscape throughout the project site that will help with runoff and stormwater management. A system of bio-filtration planters at the perimeter of the parcel and within the parking area would provide an ecologically responsible method of on-site stormwater treatment.

Table 20. Consistency with City of Murrieta's Applicable Climate Action Plan Strategy Goals

Climate Action Strategy Goals	Project Consistency
Reduce Water for Landscaping Goal CSV-2: Murrieta promotes compliance with requirements from the State and appropriate agencies regarding comprehensive water conservation measures in buildings and landscaping.	*Consistent.* The project would include project design features that would conserve water including planting drought-tolerant vegetation and water-efficient irrigation system as implemented under PDF-AQ/GHG-1. The project has been designed to include landscape throughout the project site that will help with runoff and stormwater management. A system of bio-filtration planters at the perimeter of the parcel and within the parking area would provide an ecologically responsible method of on-site stormwater treatment. Recycled water would be used for irrigation and landscape where applicable.
Waste Reduction and Recycling Strategy	
Reduce Waste through Education Goal INF-1: New development and redevelopment is coordinated with the provision of adequate infrastructure for water, sewer, storm water, and energy.	*Consistent.* Upon project approval, all infrastructure systems would be adequate to serve the project.
Increase Waste Diversion Goal CSV-13: Solid waste is diverted from landfills through waste reduction, re-use, and recycling.	*Consistent.* The project would incorporate recycling as applicable in order to divert waste from landfills. Extensive recycling/reuse program shall be implemented for warehouse and office space, including tires, cardboard, grease, plastics, and electronic waste.
Open Space Strategy	
Goal CSV-9: A community that promotes the growth of an urban forest and water-efficient landscaping, recognizing that plants provide natural services such as habitat, storm water management, soil retention, air filtration, and cooling, and also have aesthetic and economic value.	*Consistent.* The project has been designed to include landscape throughout the project site that will help with runoff and stormwater management. A system of bio-filtration planters at the perimeter of the parcel and within the parking area would provide an ecologically responsible method of on-site stormwater treatment.
Improve Local Food Security Goal CSV-10: Fresh food is grown locally and made available through multiple venues that maintain a link to the City's agricultural heritage and promote healthy eating.	*Not applicable.* This goal does not apply to the project.
Preserve Open Space Goal ROS-7: Open space areas are planned to protect, conserve, and utilize resources of unique character and value of the community.	*Not applicable.* Per the City's General Plan, the project area was not zoned as an open space land use type (e.g., park), and the project area does not include elements (e.g., creek, designated trail) that would require open space designation. The project includes outdoor eating and seating areas for customers and employees.

Table 20. Consistency with City of Murrieta's Applicable Climate Action Plan Strategy Goals

Climate Action Strategy Goals	Project Consistency
Integrate New Development and Open Space Goal ROS-8: New development is part of a coordinated system of open space, parkland, recreation facilities, and trails.	*Not applicable.* Per the City's General Plan, the project area was not zoned as an open space land use type (e.g., park), and the project area does not include elements (e.g., creek, designated trail) that would require open space designation. The project includes outdoor eating and seating areas for customers and employees.
Create New Open Spaces Goal ROS-9: Public plazas or green spaces provide additional open space opportunities for existing and future residents and employees.	*Not applicable.* Per the City's General Plan, the project area was not zoned as an open space land use type (e.g., park), and the project area does not include elements (e.g., creek, designated trail) that would require open space designation. The project includes outdoor eating and seating areas for customers and employees.

Source: City of Murrieta 2011c.
Notes: GHG = greenhouse gas; City = City of Murrieta; EV = electric vehicle.

As shown in Table 20, the project demonstrates consistency with the City's Climate Action Strategy Goals.

The City's General Plan includes various goals and policies that promote the use of clean and renewable energy sources, facilitate alternative modes of transportation and reduce VMT, reduce waste, conserve water, and promote the efficient and sustainable use of energy. The Conservation Element includes goals and policies that result in benefits with reducing GHG emissions (City of Murrieta 2011b). Table 21 summarizes the project's consistency with these policies.

Table 21. Consistency with City of Murrieta's General Plan Policies

General Plan Policies	Project Consistency
Policy CSV-2.1. Ensure that all developments comply with water efficiency requirements, as mandated by the applicable Building Code.	*Consistent.* The project would comply with water efficiency requirements as mandated by the applicable Building Code.
Policy CSV-12.1. Ensure that all developments comply with energy efficiency requirements as mandated by the applicable Building Code.	*Consistent.* The project would comply with energy efficiency requirements as mandated by the applicable Building Code. Additionally, under PDF-AQ/GHG-1, the project would include project design features that would install electric vehicle charging stations, solar photovoltaic systems, and design solar ready roofs on the remaining rooftops.
Policy CSV-12.3. Support the on-site installation and use of renewable energy generation systems for residential, commercial, institutional, and industrial uses.	*Consistent.* Under PDF-AQ/GHG-1, the project would install solar photovoltaic systems and design the roofing structure to accommodate the additional structural load of the solar panels to allow for the flexibility for possible future installation.
Policy CSV-13.1. Continue to comply with the landfill diversion requirements of the Integrated Waste Management Program.	*Consistent.* Under PDF-AQ/GHG-1, the project would incorporate recycling as applicable in order to divert waste from landfills. Extensive recycling/reuse program shall be implemented for warehouse and office space including tires, cardboard, grease, plastics, and electronic waste.
Policy CSV-13.2. Ensure that non-residential and	*Consistent.* Under PDF-AQ/GHG-1, the project would

Table 21. Consistency with City of Murrieta's General Plan Policies

General Plan Policies	Project Consistency
multi-family developments provide readily accessible areas for recycling (at a minimum) paper, corrugated cardboard, glass, plastics and metals, as required by California law.	incorporate recycling as applicable to divert waste from landfills. Extensive recycling/reuse program shall be implemented for warehouse and office space including tires, cardboard, grease, plastics, and electronic waste.
Policy CSV-14.1. Ensure all applicable construction projects comply with the California State Green Building Standards Code.	*Consistent*. The project would comply with all applicable California State Green Building Standards Code.
Policy CSV-14.2. Encourage the integration of other principles of green building into development standards and guidelines, looking for opportunities to realize other benefits such as improved health and increased bicycle transportation.	*Consistent*. The project would include PDF-AQ/GHG-1, such as use of electric landscape maintenance equipment, installation of electric vehicle charging stations, installation of solar photovoltaic systems, and design solar ready roofs.

Source: City of Murrieta 2011a.

As discussed in Table 21, the project would be consistent with the City's General Plan Policies.

As discussed in Section 3.2.2, the Scoping Plan (approved by CARB in 2008 and updated in 2014 and 2017) provides a framework for actions to reduce California's GHG emissions and requires CARB and other state agencies to adopt regulations and other initiatives to reduce GHGs. The Scoping Plan is not directly applicable to specific projects, nor is it intended to be used for project-level evaluations.[14] Under the Scoping Plan, however, there are several state regulatory measures aimed at the identification and reduction of GHG emissions. CARB and other state agencies have adopted many of the measures identified in the Scoping Plan. Most of these measures focus on area source emissions (e.g., energy usage, high-GWP GHGs in consumer products) and changes to the vehicle fleet (i.e., hybrid, electric, and more fuel-efficient vehicles) and associated fuels (e.g., LCFS), among others.

The Scoping Plan recommends strategies for implementation at the statewide level to meet the goals of AB 32 and establishes an overall framework for the measures that will be adopted to reduce California's GHG emissions. Table 22 highlights measures that have been, or will be, developed under the Scoping Plan and the project's consistency with Scoping Plan measures. To the extent that these regulations are applicable to the project, its inhabitants, or uses, the project would comply with all regulations adopted in furtherance of the Scoping Plan to the extent required by law.

Table 22. Project Consistency with Scoping Plan Greenhouse Gas Emission Reduction Strategies

Scoping Plan Measure	Measure Number	Project Consistency
Transportation Sector		
Advanced Clean Cars	T-1	*Consistent*. The project's customers and employees would purchase vehicles in compliance with CARB vehicle

[14] The Final Statement of Reasons for the amendments to the CEQA Guidelines reiterates the statement in the Initial Statement of Reasons that "[t]he Scoping Plan may not be appropriate for use in determining the significance of individual projects because it is conceptual at this stage and relies on the future development of regulations to implement the strategies identified in the Scoping Plan" (CNRA 2009).

Table 22. Project Consistency with Scoping Plan Greenhouse Gas Emission Reduction Strategies

Scoping Plan Measure	Measure Number	Project Consistency
		standards that are in effect at the time of vehicle purchase.
Low Carbon Fuel Standard	T-2	*Consistent*. Motor vehicles driven by the project's customers and employees would use compliant fuels.
Regional Transportation-Related GHG Targets	T-3	*Consistent*. The project location would be convenient for customers and customers to travel to shopping and work.
Vehicle Efficiency Measures 1. Tire Pressure 2. Fuel Efficiency Tire Program 3. Low-Friction Oil 4. Solar-Reflective Automotive Paint and Window Glazing	T-4	*Consistent.* The project's tire center would purchase tires in compliance with EPA and NHTSA standards that are in effect at the time of tire purchase.
Ship Electrification at Ports (Shore Power)	T-5	*Not applicable.*
Goods Movement Efficiency Measures 1. Port Drayage Trucks 2. Transport Refrigeration Units Cold Storage Prohibition 3. Cargo Handling Equipment, Anti-Idling, Hybrid, Electrification 4. Goods Movement Systemwide Efficiency Improvements 5. Commercial Harbor Craft Maintenance and Design Efficiency 6. Clean Ships 7. Vessel Speed Reduction	T-6	*Not applicable.*
Heavy-Duty Vehicle GHG Emission Reduction 1. Tractor-Trailer GHG Regulation 2. Heavy-Duty Greenhouse Gas Standards for New Vehicle and Engines (Phase I)	T-7	*Consistent*. The project's delivery trucks would comply with EPA and NHTSA federal Phase 2 Standards that are in effect at the time of vehicle purchase.
Medium- and Heavy-Duty Vehicle Hybridization Voucher Incentive Project	T-8	*Consistent*. The project's delivery trucks would comply with EPA and NHTSA federal Phase 2 Standards that are in effect at the time of vehicle purchase.
High-Speed Rail	T-9	*Not applicable.*
Electricity and Natural Gas Sector		
Energy Efficiency Measures (Electricity)	E-1	*Consistent*. The project would comply with current Title 24, Part 6, of the California Code of Regulations energy efficiency standards for electrical appliances and other devices at the time of building construction. Under PDF-AQ/GHG-1, the project would install solar photovoltaic systems and design solar ready roofs to accommodate the solar equipment that may be installed at a future date.

Table 22. Project Consistency with Scoping Plan Greenhouse Gas Emission Reduction Strategies

Scoping Plan Measure	Measure Number	Project Consistency
Energy Efficiency (Natural Gas)	CR-1	*Consistent*. The project would comply with current Title 24, Part 6, of the California Code of Regulations energy efficiency standards for natural gas appliances and other devices at the time of building construction.
Solar Water Heating (California Solar Initiative Thermal Program)	CR-2	*Consistent*. The project would install comply with current Title 24, Part 6 of the California Code of Regulations.
Combined Heat and Power	E-2	*Not applicable.*
Renewable Portfolios Standard (33% by 2020)	E-3	*Consistent*. The electricity used by the project would benefit from reduced GHG emissions resulting from increased use of renewable energy sources. Furthermore, under PDF-AQ/GHG-1, the project would install solar photovoltaic systems and design solar ready roofs on the remaining rooftops.
SB 1 Million Solar Roofs (California Solar Initiative, New Solar Home Partnership, Public Utility Programs) and Earlier Solar Programs	E-4	*Consistent*. Under PDF-AQ/GHG-1, the project would install solar photovoltaic systems and design solar ready roofs on the remaining rooftops.
Water Sector		
Water Use Efficiency	W-1	*Consistent*. Under PDF-AQ/GHG-1, the project would include planting drought-tolerant vegetation and water-efficient irrigation system
Water Recycling	W-2	*Not feasible*. Recycled water is not available to the site; however, the project would install non-potable irrigation lines in preparation for recycled water becoming available in the future, as implemented under PDF-AQ/GHG-1.
Water System Energy Efficiency	W-3	*Not applicable*. This is applicable for the transmission and treatment of water, but it is not applicable for the project.
Reuse Urban Runoff	W-4	*Not feasible*. Per the applicant, reuse of urban water on-site was determined to not be feasible.
Renewable Energy Production	W-5	*Not applicable*. Applicable for wastewater treatment systems.
Green Buildings		
State Green Building Initiative: Leading the Way with State Buildings (Greening New and Existing State Buildings)	GB-1	*Consistent*. The project would be required to be constructed in compliance with state or local green building standards in effect at the time of building construction.
Green Building Standards Code (Greening New Public Schools, Residential and Commercial Buildings)	GB-1	*Consistent*. The project's buildings would meet green building standards that are in effect at the time of design and construction.
Beyond Code: Voluntary Programs at the Local Level (Greening New Public Schools, Residential and Commercial Buildings)	GB-1	*Consistent*. The project would be required to be constructed in compliance with local green building standards in effect at the time of building construction.
Greening Existing Buildings (Greening Existing Homes and Commercial Buildings)	GB-1	*Not applicable*. This is applicable for existing buildings only. It is not applicable for the project except as future standards may become applicable to existing buildings.

Table 22. Project Consistency with Scoping Plan Greenhouse Gas Emission Reduction Strategies

Scoping Plan Measure	Measure Number	Project Consistency
Industry Sector		
Energy Efficiency and Co-Benefits Audits for Large Industrial Sources	I-1	*Not applicable.*
Oil and Gas Extraction GHG Emission Reduction	I-2	*Not applicable.*
GHG Emissions Reduction from Natural Gas Transmission and Distribution	I-3	*Not applicable.*
Refinery Flare Recovery Process Improvements	I-4	*Not applicable.*
Work with the local air districts to evaluate amendments to their existing leak detection and repair rules for industrial facilities to include methane leaks	I-5	*Not applicable.*
Recycling and Waste Management Sector		
Landfill Methane Control Measure	RW-1	*Not applicable.*
Increasing the Efficiency of Landfill Methane Capture	RW-2	*Not applicable.*
Mandatory Commercial Recycling	RW-3	*Consistent*. During both construction and operation of the project, the project would comply with all state regulations related to solid waste generation, storage, and disposal, including the California Integrated Waste Management Act, as amended. During operation, extensive recycling/reuse program would be implemented by providing tenants with recycling bins, as implemented under PDF-AQ/GHG-1.
Increase Production and Markets for Compost and Other Organics	RW-3	*Not applicable.*
Anaerobic/Aerobic Digestion	RW-3	*Not applicable.*
Extended Producer Responsibility	RW-3	*Not applicable* (applicable to product designer and producers).
Environmentally Preferable Purchasing	RW-3	*Not applicable* (applicable to product designer and producers).
Forests Sector		
Sustainable Forest Target	F-1	*Not applicable.*
High GWP Gases Sector		
Motor Vehicle Air Conditioning Systems: Reduction of Refrigerant Emissions from Non-Professional Servicing	H-1	*Consistent*. The project's customers and employees would be prohibited from performing air conditioning repairs and would be required to use professional servicing.
SF_6 Limits in Non-Utility and Non-Semiconductor Applications	H-2	*Not applicable.*
Reduction of Perfluorocarbons in Semiconductor Manufacturing	H-3	*Not applicable.*
Limit High GWP Use in Consumer Products	H-4	*Not applicable.*

Table 22. Project Consistency with Scoping Plan Greenhouse Gas Emission Reduction Strategies

Scoping Plan Measure	Measure Number	Project Consistency
Air Conditioning Refrigerant Leak Test During Vehicle Smog Check	H-5	*Not applicable.*
Stationary Equipment Refrigerant Management Program – Refrigerant Tracking/Reporting/Repair Program	H-6	*Not applicable.*
Stationary Equipment Refrigerant Management Program – Specifications for Commercial and Industrial Refrigeration	H-6	*Not applicable.*
SF_6 Leak Reduction Gas Insulated Switchgear	H-6	*Not applicable.*
Agriculture Sector		
Methane Capture at Large Dairies	A-1	*Not applicable*.

Source: CARB 2010.
Notes: CARB = California Air Resources Board; GHG = greenhouse gas; SB = Senate Bill; EPA = U.S. Environmental Protection Agency; NHTSA = National Highway Traffic Safety Administration; SF_6 = sulfur hexafluoride; GWP = global warming potential.

Based on the analysis in Table 22, the project would be consistent with the applicable strategies and measures in the Scoping Plan.

SCAG's 2016 RTP/SCS is a regional growth-management strategy that targets per capita GHG reduction from passenger vehicles and light-duty trucks in the Southern California region pursuant to SB 375. In addition to demonstrating the region's ability to attain and exceed the GHG emission-reduction targets set forth by CARB, the 2016 RTP/SCS outlines a series of actions and strategies for integrating the transportation network with an overall land use pattern that responds to projected growth, housing needs, changing demographics, and transportation demands. Thus, successful implementation of the 2016 RTP/SCS would result in more complete communities with a variety of transportation and housing choices, while reducing automobile use. The 2016 RTP/SCS incorporates local land use projections and circulation networks in city and county general plans. The City's Zoning Map shows the project site as being zoned Regional Commercial (City of Murrieta 2014). The project would be consistent with the current zoning and land use designation.

The project would add 20 full-time employees. The SCAG 2016 RTP/SCS provides employee estimates for the years 2012 and 2040. To provide an interim year comparison, this analysis interpolates the City's projected employee population in the project's operational year (2021) based on the average growth rate to compare with the estimated increase in employees generated by the project. The SCAG 2016 RTP/SCS estimates that the City's employee population will increase approximately 30% between 2012 and 2040. Regarding households, the SCAG 2016 RTP/SCS estimates that the City's total households will increase approximately 25% between 2012 and 2040. The project's 20 potential employees would not exceed the interpolated annual growth rate of 782 employees a year for the City. Based on these considerations, vehicle trip generation and planned development for the site are concluded to have been anticipated in the SCAG growth projections because the land use designation and zoning would remain the same (i.e., Regional Commercial). The addition of project-generated employees to the City's estimated employee population would not exceed the SCAG 2016 RTP/SCS forecasted population. With regard to individual developments, such as the project, the strategies and policies set forth in the 2016 RTP/SCS can be grouped into the following three categories: (1) reduction of vehicle trips and VMT, (2)

increased use of alternative fuel vehicles, and (3) improved energy efficiency. The project's consistency with these three strategy categories is presented below.

1. Consistency with Vehicle Miles Traveled Reduction Strategies and Policies

The project's consistency with this aspect of the 2016 RTP/SCS is demonstrated via the project's land use characteristics and features that would reduce vehicular trips and VMT, as well as the project's consistency with the regional growth forecast assumed in the 2016 RTP/SCS for the City. As discussed in Section 2.5.1, vehicle trip generation and planned development for the project site are concluded to have been anticipated in the SCAG 2016 RTP/SCS growth projections because the project would be consistent with the current zoning and land use designation. Regarding VMT reduction characteristics, the project would be serviced by the Riverside Transit Agency Bus Route 61, which provides residents and employers/employees an alternate mode of transportation to the project site. Furthermore, the residents in the City and surrounding communities would also be provided a nearer commercial/retail center rather than driving to another location. Furthermore, the project would also provide additional employment opportunities in the City, which reduces VMT for residents who may otherwise be traveling outside the City for these retail jobs. The project site would be accessible for bicycles and pedestrians. A pedestrian pathway would be constructed to ensure connectivity throughout the site and easy access from adjacent streets and neighboring properties.

2. Increased Use of Alternative Fueled Vehicles Policy Initiative

The second goal of the 2016 RTP/SCS, with regard to individual development projects such as the project, is to increase alternative fueled vehicles to reduce per capita GHG emissions. This 2016 RTP/SCS policy initiative focuses on accelerating fleet conversion to electric or other near zero-emission technologies. The project would be consistent with these strategies since electric vehicle charging stations would be implemented into the project, including installing 11 electric vehicle charging stations (over 6% of the total parking spaces) and marking four parking spaces and two Americans with Disabilities Act–compliant parking spaces for electric vehicle/clean air/van pool parking only.

3. Energy Efficiency Strategies and Policies

The third important focus within the 2016 RTP/SCS, for individual developments such as the proposed project, involves improving energy efficiency (e.g., reducing energy consumption) to reduce GHG emissions. The 2016 RTP/SCS goal is to actively encourage and create incentives for energy efficiency, where possible. The project would comply with the current CALGreen and Title 24 standards. Additionally, the project applicant committed to installing plugs on exteriors of each building allowing for landscaping maintenance equipment recharging, installing solar photovoltaic systems, designing remaining rooftops to be solar ready, and installing electric plug-ins at loading docks for delivery trucks.

Based on the analysis above, the project would be consistent with the SCAG 2016 RTP/SCS.

Conclusion

The City has taken steps to address climate change impacts at a local level. In 2011, the City Council adopted a CAP. The purpose of the City's CAP is to guide the development, enhancement, and implementation of actions that would reduce the City's GHG emissions by 15% below existing levels below 2009 baseline emission levels by 2020. Actions to be taken to achieve this goal are outlined in the City's CAP. In addition, as summarized in Table 21, the City's General Plan includes various goals and policies that promote the use of clean and renewable

energy sources, facilitate alternative modes of transportation and reduce VMT, reduce waste, conserve water, and promote the efficient and sustainable use of energy. Table 19 and Table 20 above describe the project's consistency with the City's climate action strategies and City's climate action strategy goals in the City's CAP, respectively. As stated in the City's CAP, projects that demonstrate consistency with the goals, strategies, actions, and emission reduction targets contained in the City's CAP would have a less-than-significant impact on climate change. Since Table 19 and Table 20 demonstrate the project's consistency with those strategies and goals, respectively, the project would be consistent with the City's climate action strategies and would not result in a conflict with the adopted CAP.

SCAG's 2016 RTP/SCS is a regional growth-management strategy that targets per capita GHG reduction from passenger vehicles and light-duty trucks in the Southern California region. The 2016 RTP/SCS incorporates local land use projections and circulation networks in city and county general plans. The City's Zoning Map shows the site as being zoned Regional Commercial (City of Murrieta 2014). The project would be consistent with the current zoning and land use designation. The project would add 20 full-time employees.

The project would not impede the attainment of the GHG reduction goals for 2030 or 2050 identified in EO S-3-05 and SB 32. As discussed in Section 3.2.2, EO S-3-05 establishes the following goals: GHG emissions should be reduced to 2000 levels by 2010, to 1990 levels by 2020, and to 80% below 1990 levels by 2050. SB 32 establishes for a statewide GHG emissions reduction target whereby CARB, in adopting rules and regulations to achieve the maximum technologically feasible and cost-effective GHG emissions reductions, shall ensure that statewide GHG emissions are reduced to at least 40% below 1990 levels by December 31, 2030. While there are no established protocols or thresholds of significance for that future year analysis; CARB forecasts that compliance with the current Scoping Plan puts the state on a trajectory of meeting these long-term GHG goals, although the specific path to compliance is unknown (CARB 2014).

To begin, CARB has expressed optimism with regard to both the 2030 and 2050 goals. It states in the First Update that "California is on track to meet the near-term 2020 GHG emissions limit and is well positioned to maintain and continue reductions beyond 2020 as required by AB 32" (CARB 2014). With regard to the 2050 target for reducing GHG emissions to 80% below 1990 levels, the First Update states the following (CARB 2014):

> This level of reduction is achievable in California. In fact, if California realizes the expected benefits of existing policy goals (such as 12,000 megawatts of renewable distributed generation by 2020, net zero energy homes after 2020, existing building retrofits under AB 758, and others) it could reduce emissions by 2030 to levels squarely in line with those needed in the developed world and to stay on track to reduce emissions to 80% below 1990 levels by 2050. Additional measures, including locally driven measures and those necessary to meet federal air quality standards in 2032, could lead to even greater emission reductions.

In other words, CARB believes that the state is on a trajectory to meet the 2030 and 2050 GHG reduction targets set forth in AB 32, SB 32, and EO S-3-05. This is confirmed in the Second Update, which states (CARB 2017b):

> The Proposed Plan builds upon the successful framework established by the Initial Scoping Plan and First Update, while also identifying new, technologically feasible and cost-effective strategies to ensure that California meets its GHG reduction targets in a way that promotes and rewards innovation, continues to foster economic growth, and delivers improvements to the environment and public health, including in

disadvantaged communities. The Proposed Plan is developed to be consistent with requirements set forth in AB 32, SB 32, and AB 197.

The project is consistent with the GHG emission reduction measures in the Scoping Plan. The project is consistent with the Scoping Plan, 2016 RTP/SCS, City's General Plan, and the City's CAP, which all promote economic growth while achieving greater energy efficiency. The project would be consistent with SCAG's RTP/SCS, SB 32, and EO S-3-05 by being consistent with VMT reduction strategies and policies, increasing the use of alternative fueled vehicles, and implementing energy efficiency strategies. The project would not conflict with any plans adopted with the purpose of reducing GHG emissions; therefore, the proposed project's impacts on GHG emissions would be **less than significant**.

Mitigation Measures

No mitigation is required.

Level of Significance After Mitigation

Impacts would be less than significant without mitigation.

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Appendix A

CalEEMod Output Files

Vineyard III Construction and Operational Air Quality and Greenhouse Gas Emissions

Construction - Unmitigated

	VOC	NOx	CO	SO2	PM10	PM2.5	CO2	CH4	N2O	CO2e
Year	**(lb/day)**						**MT/year**			
2021	34.33	74.82	46.13	0.21	5.11	2.28	502.18	0.07	0.00	503.84
Rock Crushing Emissions										
2021	2.85	27.71	18.70	0.06	2.00	1.17	15.41	0.00	0.00	15.42
TOTAL										
2021	**37.19**	**102.53**	**64.83**	**0.27**	**7.11**	**3.45**	**517.58**	**0.07**	**0.00**	**519.27**
Threshold	*75*	*100*	*550*	*150*	*150*	*55*		**Amortized 30 year construction**		**17.31**

Operational 2021 - Unmitigated

	VOC	NOx	CO	SO2	PM10	PM2.5	CO2	CH4	N2O	CO2e
Category	**(lb/day)**						**MT/year**			
Area	0.83	0.00	0.02	0.00	0.00	0.00	0.01	0.00	0.00	0.01
Energy	0.08	0.70	0.59	0.00	0.05	0.05	306.75	0.01	0.00	308.17
Mobile	5.66	18.09	115.51	0.32	30.42	7.63	5,274.05	0.25	0.19	5,337.48
Waste	-	-	-	-	-	-	29.06	1.72	0.00	71.99
Water	-	-	-	-	-	-	19.79	0.14	0.00	24.32
TOTAL	**6.57**	**18.79**	**116.12**	**0.32**	**30.47**	**7.68**	**5,629.65**	**2.12**	**0.20**	**5,741.96**
Threshold	*55*	*55*	*550*	*150*	*150*	*55*		**Amortized 30 year construction**		17.31
								Operation + Amortized Construction		**5,759.27**

1. Operational mobile emissions include truck idling and TRU emissions.
2. Operational mobile GHG emissions include reductions from EV charging stations.
3. Energy includes GHG reductions from 31 kW solar PV system electricity generation.

Construction - Unmitigated HRA Emissions Summary

Source	PM10 Exhaust	Site Prep	Grading	Trenching	Building Construction	Paving	Architectural Coating	Total
Equipment	tons/year	0.00	0.02	0.00	0.07	0.00	0.00	0.10
	lb/year	6.80	40.60	0.00	145.00	2.92	2.00	197.32
	lb/hr	0.00	0.03	0.00	0.10	0.00	0.00	0.14
Trucks	tons/year	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	lb/year	0.00	0.84	0.00	1.42	0.62	0.02	2.90
	lb/hr	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vineyard III Construction and Operational Air Quality and Greenhouse Gas Emissions

Construction - Mitigated

	VOC	NOx	CO	SO2	PM10	PM2.5
Year	**(lb/day)**					
2021	33.20	69.77	49.68	0.21	4.30	1.38
Rock Crushing Emissions						
2021	2.85	27.71	18.70	0.06	2.00	1.17
TOTAL						
2021	**36.06**	**97.48**	**68.38**	**0.27**	**6.30**	**2.55**
Threshold	*75*	*100*	*550*	*150*	*150*	*55*

1. Includes use of Tier 4 Final off-road construction equipment greater than 75 horsepower.

Construction - Mitigated HRA Emissions Summary

Source	PM10 Exhaust	Site Prep	Grading	Trenching	Building Construction	Paving	Architectural Coating	Total
Equipment	tons/year	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	lb/year	0.40	2.16	0.00	7.00	0.14	0.08	9.78
	lb/hr	0.00	0.00	0.00	0.00	0.00	0.00	0.01
Trucks	tons/year	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	lb/year	0.00	0.20	0.00	0.14	0.08	0.00	0.42
	lb/hr	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Quantification of Commercial EV Charging Station Benefit

SCE Electricity Emission Factor[1]	0.30	MT CO_2e/MWh
Fuel Economy of Electric Vehicle[2]	0.25	kWh/mile
Gasoline/Diesel CO_2e Emission while Running[3]	288	g/mile
Annual VMT per Parking Spot[4]	45,625	miles/charging station/year
Number of EV Parking Spots Provided by Project[5]	10	
Annual VMT All Stations (Based on Charge)	456,250	miles/year
GHG Emissions of Gasoline/Diesel Vehicle[6]	132	MT CO_2e/year
GHG Emissions of Electric Vehicle[7]	34	MT CO_2e/year
GHG Emissions Reduction[8]	98	MT CO_2e/year
GHG Reduction per Parking Space with Charging per Year	10	MT CO_2e/year

Notes:

1. CO2e weighted intensity factor for SCE accounts for CO_2, CH_4, and N_2O emission rates consistent with 2020 RPS goal of 33%.

2. US Department of Energy. 2013. Benefits and Considerations of Electricity as a Vehicle Fuel. https://www.afdc.energy.gov/fuels/electricity_benefits.html. Accessed October 2018.

3. California Air Resources Board. 2015. EMFAC 2014. Running exhaust emission rate for CO_2 for light duty gasoline- and diesel-pwered vehicles for South Coast Air Basin, aggregated for all models and speeds, averaged over all seasons for 2021. https://www.arb.ca.gov/emfac/. Accessed October 2018.

4. Annual VMT reduction estimated based on an estimate of 5 hours of charge time for a Level 2 charging station that charges at a rate of 25 miles of driving range per hour.

5. Number of charging stations based on project commitment. This assumes 16 parking spaces would be serviced by a charging station.

6. GHG emissions calculated using annual VMT reduction at all stations.

7. GHG emissions calculated using annual VMT reduction at all stations, fuel economy of electric vehicles, along with SCE electricity intensity emission factor.

8. GHG emission reduction is a difference of GHG emissions of gasoline vehicles and GHG emissions of electric vehicles.

EMFAC2017 (v1.0.2) Emission Rates
Region Type: County
Region: RIVERSIDE
Calendar Year: 2021
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIUI

Region	CalYr	VehClass	MdlYr	Speed	Fuel	Population	VMT	Trips	CO2_RUNEX
RIVERSIDE	2021	LDA	Aggregatec	Aggregatec	GAS	750300.86	29816029.44	3552291.91	270.04
RIVERSIDE	2021	LDA	Aggregatec	Aggregatec	DSL	6761.58	284051.95	32376.68	200.09
RIVERSIDE	2021	LDT1	Aggregatec	Aggregatec	GAS	80587.48	3017205.80	366690.86	318.31
RIVERSIDE	2021	LDT1	Aggregatec	Aggregatec	DSL	42.62	937.32	139.37	398.08
RIVERSIDE	2021	LDT2	Aggregatec	Aggregatec	GAS	246596.51	9631963.54	1154462.90	341.13
RIVERSIDE	2021	LDT2	Aggregatec	Aggregatec	DSL	1288.99	58422.34	6390.04	268.66
RIVERSIDE	2021	MCY	Aggregatec	Aggregatec	GAS	35659.72	267522.39	71319.43	208.30
								Composite	**288.48**

Delivery truck idling and TRU emissions

		Truck Count		VOC	NOx	CO	SO2	PM10	PM2.5	CO2	CH4	N2O	CO2e
	hr/truck	trucks/day	trucks/year	lb/day	lb/day	lb/day	lb/day	lb/day	lb/day	MT/yr	MT/yr	MT/yr	MT/yr
Idling	0.25	21	1,092	0.000536	0.000025	0.007542	0.000266	0.000028	0.000016	0.000001	-	-	0.000001
TRU	0.50	7	364	0.000006	0.000061	0.000051	0.000000	0.000002	0.000002	0.000032	-	-	0.000032
			TOTAL	0.000542	0.000086	0.007593	0.000266	0.000031	0.000018	0.000032	0.000000	0.000000	0.000032

Assumptions:

1. 21 truck deliveries per week, M-F.
2. 7 refrigerated deliveiries per week, electric plug-ins will be available at the loading docks for delivery trucks, M-F.

Conversions:

1 lb =	453.6	g
1 MT =	1000000	g
1 MT =	2000	lb

EMFAC2017 (v1.0.2) Emission Rates
Region Type: County
Region: RIVERSIDE
Calendar Year: 2021
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN

															CALCULATED						
Region	CalYr	VehClass	MdlYr	Speed	Fuel	Population	VMT	Trips	ROG_IDLEX	CO_IDLEX	NOx_IDLEX	CO2_IDLEX	PM10_IDLE	PM2_5_IDI	SOx_IDLEX	ROG_IDLEX	CO_IDLEX	NOx_IDLEX	CO2_IDLEX	PM10_IDLE	PM2_5_IDI	SOx_IDLEX
									g/veh/day	g/veh/day	g/veh/day	g/veh/day	g/veh/day	g/veh/day	g/veh/day	g/veh/hr	g/veh/hr	g/veh/hr	g/veh/hr	g/veh/hr	g/veh/hr	g/veh/hr
RIVERSIDE	2021	HHDT	Aggregatec	Aggregatec	DSL	27250.49	3825933	312944.6	6.674635605	86.88741	0.31002	0.123348	0.118012	0.153114	2.547493	0.061011	0.794218	0.002834	0.001127	0.001079	0.0014	0.023286
RIVERSIDE	2021	MHDT	Aggregatec	Aggregatec	DSL	15756.36	963068.1	151121.4	0.121790715	2.373493	0.005657	0.029217	0.027953	0.007909	0.131596	0.020783	0.405033	0.000965	0.004986	0.00477	0.00135	0.022457
															Composite	**0.046273**	**0.651633**	**0.002149**	**0.002541**	**0.002431**	**0.001381**	**0.022982**

Notes:
e Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day
OBUS	5.9	min/day
SBUS	31.8	min/day

OFFROAD2017 (v1.0.1) Emissions Inventory
Region Type: Air Basin
Region: South Coast
Calendar Year: 2021
Scenario: All Adopted Rules - Exhaust
Vehicle Classification: OFFROAD2017 Equipment Types
Units: Emissions: tons/day, Fuel Consumption: gallons/year, Activity: hours/year, HP-Hours: HP-hours/year

Region	CalYr	VehClass	MdlYr	HP_Bin	Fuel	ROG_tpd	CO_tpd	NOx_tpd	CO2_tpd	PM10_tpd	PM2_5_tp	SOx_tpd	NH3_tpd	Fuel_gpy	Total_Activ	Total_Popu	Horsepower_Hours_hl
South Coas	2021	TRU - Insta	1993	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	0
South Coas	2021	TRU - Insta	1994	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	0
South Coas	2021	TRU - Insta	1995	25	Diesel	3.643E-06	1.99E-05	3.53E-05	0.000332	1.82E-06	1.67E-06	3E-09	2.73E-09	0.210578	167.0075	0.122709	2354.805
South Coas	2021	TRU - Insta	1996	25	Diesel	6.465E-06	3.53E-05	6.26E-05	0.000589	3.22E-06	2.96E-06	5.32E-09	4.84E-09	0.373697	296.3764	0.217764	4178.907
South Coas	2021	TRU - Insta	1997	25	Diesel	1.338E-05	7.31E-05	0.00013	0.001219	6.67E-06	6.14E-06	1.1E-08	1E-08	0.773507	613.4625	0.450744	8649.821
South Coas	2021	TRU - Insta	1998	25	Diesel	2.992E-05	0.000164	0.00029	0.002724	1.49E-05	1.37E-05	2.46E-08	2.24E-08	1.72926	1371.462	1.007687	19337.61
South Coas	2021	TRU - Insta	1999	25	Diesel	6.829E-05	0.000373	0.000662	0.006219	3.4E-05	3.13E-05	5.62E-08	5.11E-08	3.947293	3130.567	2.300196	44141
South Coas	2021	TRU - Insta	2000	25	Diesel	5.67E-05	0.000332	0.000552	0.007973	3.6E-05	3.31E-05	7.28E-08	6.55E-08	5.061266	4014.05	2.949338	56598.1
South Coas	2021	TRU - Insta	2001	25	Diesel	6.435E-05	0.000377	0.000626	0.009048	4.08E-05	3.76E-05	8.26E-08	7.43E-08	5.743386	4555.034	3.346829	64225.98
South Coas	2021	TRU - Insta	2002	25	Diesel	7.016E-05	0.000411	0.000683	0.009865	4.45E-05	4.1E-05	9.01E-08	8.11E-08	6.261858	4966.23	3.648957	70023.85
South Coas	2021	TRU - Insta	2003	25	Diesel	0.000164	0.000961	0.001596	0.023064	0.000104	9.58E-05	2.11E-07	1.9E-07	14.63989	11610.78	8.531064	163712
South Coas	2021	TRU - Insta	2004	25	Diesel	0.000328	0.001921	0.003191	0.046123	0.000208	0.000192	4.21E-07	3.79E-07	29.27705	23219.39	17.06054	327393.5
South Coas	2021	TRU - Insta	2005	25	Diesel	0.0004493	0.003652	0.00436	0.087668	0.00032	0.000294	8.05E-07	7.2E-07	55.64872	44134.56	32.42804	622297.3
South Coas	2021	TRU - Insta	2006	25	Diesel	0.0005885	0.004783	0.005711	0.114831	0.000419	0.000386	1.05E-06	9.44E-07	72.89053	57808.9	42.47531	815105.4
South Coas	2021	TRU - Insta	2007	25	Diesel	0.0006307	0.005127	0.006121	0.123079	0.000449	0.000413	1.13E-06	1.01E-06	78.12634	61961.38	45.52636	873655.4
South Coas	2021	TRU - Insta	2008	25	Diesel	0.001711	0.013908	0.016605	0.33388	0.000609	0.00056	3.07E-06	2.74E-06	211.9349	168083.9	123.5003	2369982
South Coas	2021	TRU - Insta	2009	25	Diesel	0.0006291	0.005114	0.006105	0.122763	0.000224	0.000206	1.13E-06	1.01E-06	77.92544	61802.05	45.4093	871408.9
South Coas	2021	TRU - Insta	2010	25	Diesel	0.0007359	0.005982	0.007142	0.143602	0.000262	0.000241	1.32E-06	1.18E-06	91.15314	72292.84	53.11744	1019329
South Coas	2021	TRU - Insta	2011	25	Diesel	0.0010461	0.008503	0.010152	0.204134	0.000397	0.000365	1.87E-06	1.68E-06	129.5771	102766.6	75.50812	1449008
South Coas	2021	TRU - Insta	2012	25	Diesel	0.0027064	0.021999	0.026264	0.52811	0.001026	0.000944	4.85E-06	4.34E-06	335.225	265864.3	195.3448	3748686
South Coas	2021	TRU - Insta	2013	25	Diesel	0.0012147	0.009873	0.011788	0.237024	0.000461	0.000424	2.18E-06	1.95E-06	150.4543	119324.1	87.67383	1682470
South Coas	2021	TRU - Insta	2014	25	Diesel	0.0026107	0.021221	0.025336	0.509447	0.00099	0.000911	4.68E-06	4.19E-06	323.3783	256468.8	188.4414	3616210
South Coas	2021	TRU - Insta	2015	25	Diesel	0.0046052	0.037433	0.044691	0.898635	0.001746	0.001607	8.25E-06	7.38E-06	570.4211	452396.4	332.4	6378790
South Coas	2021	TRU - Insta	2016	25	Diesel	0.0028866	0.023464	0.028013	0.56328	0.001095	0.001007	5.17E-06	4.63E-06	357.55	283570.1	208.3542	3998338
South Coas	2021	TRU - Insta	2017	25	Diesel	0.0031027	0.025221	0.030111	0.605456	0.001177	0.001082	5.56E-06	4.97E-06	384.3215	304802.3	223.9547	4297713
South Coas	2021	TRU - Insta	2018	25	Diesel	0.0033931	0.027581	0.032929	0.662119	0.001287	0.001184	6.08E-06	5.44E-06	420.2891	333328	244.914	4699924
South Coas	2021	TRU - Insta	2019	25	Diesel	0.0050175	0.040785	0.048693	0.979096	0.001903	0.00175	8.99E-06	8.04E-06	621.4948	492902.6	362.1621	6949926
South Coas	2021	TRU - Insta	2020	25	Diesel	0.0036139	0.029376	0.035072	0.705211	0.00137	0.001261	6.47E-06	5.79E-06	447.6422	355021.5	260.8534	5005803

ROG	CO	Nox	CO2	PM10	PM2.5	Osx	NH3
tons/hr/TRU	tons/hr/TR	tons/hr/TR	tons/hr/TR	tons/hr/TR	tons/hr/TR	tons/hr/TR	tons/hr/TRU
8.93E-10	7.26E-09	8.67E-09	1.74E-07	3.41E-10	3.14E-10	1.6E-12	1.43E-12
lb/hr/TRU	lb/hr/TRU	lb/hr/TRU	lb/hr/TRU	lb/hr/TRU	lb/hr/TRU	lb/hr/TRU	lb/hr/TRU
1.79E-06	1.45E-05	1.73E-05	3.49E-04	6.82E-07	6.27E-07	3.20E-09	2.86E-09

Vineyard III
Rock Crusher Emissions

Equation:

Drop Operations Formula

$EF(PM) = (k*0.0032)*(U/5)^{1.3}/(M/2)^{1.4}$

k (PM_{10}) =	0.35	
k ($PM_{2.5}$) =	0.053	
U =	3.04	mph
M =	3	%
EF PM_{10} =	0.000333	
EF PM_{10} =	0.000050	

Where:

EF = emission factor (pounds per ton)
k =particle size multiplier (dimensionsless)
U = mean wind speed, meters per second (m/s) (miles per hour (mph))
M = material moisture content (%)

Reference:

AP42 Section 13.2.4.3 - Predictive Emission Factor Equations

Assumptions:

Production Rate Information

3,000	tons/year
5	number of days
600	tons/day

Emissions Calculations:

Equipment Type	Throughput	PM_{10}			$PM_{2.5}$		
	Tons/day	Emission Factor (lb/ton)	Daily (lb/day)	Annual (tons/year)	Emission Factor (lb/ton)	Daily (lb/day)	Annual (tons/year)
Hopper Loading	600	0.000333	0.20	5.00E-04	0.000050	0.030	7.56E-05
Primary Crusher	600	ND	-	-	ND	-	-
Conveyor Transfer	600	0.000046	0.03	6.90E-05	0.000013	0.008	1.95E-05
Conveyor Transfer	300	0.000046	0.01	3.45E-05	0.000013	0.004	9.75E-06
Conveyor Transfer	300	0.000046	0.01	3.45E-05	0.000013	0.004	9.75E-06
Screen	600	0.00074	0.44	1.11E-03	0.00005	0.030	7.50E-05
Conveyor Transfer	300	0.000046	0.01	3.45E-05	0.000013	0.004	9.75E-06
Conveyor Transfer	150	0.000046	0.01	1.73E-05	0.000013	0.002	4.88E-06
Secondary Crusher	600	ND	-	-	ND	-	-
Conveyor Transfer	180	0.000046	0.01	2.07E-05	0.000013	0.002	5.85E-06
Conveyor Transfer	420	0.000046	0.02	4.83E-05	0.000013	0.005	1.37E-05
Conveyor Transfer to Pile	180	0.000333	0.06	1.50E-04	0.000050	0.009	2.27E-05
Conveyor Transfer to Pile	420	0.000333	0.14	3.50E-04	0.000050	0.021	5.29E-05
Total Rock Crushing			***0.95***	***2.37E-03***		***0.12***	***2.99E-04***

References/Notes:

Emission Factors from AP-42, Section 11.19.2 (Crushed Stone Processing), Table 11.19.2-2 (controlled factors).

Emission Factor for drop operation (conveyor to product pile) from AP-42, Section 13.2.4 (Aggregate Handling and Storage Piles), Equation 1.
Wind speed is obtained from mean of Lake Elsinore 2012-2016 meteorlogical data. Moisture content is assumed to be 3%.
ND = No data
Conversion 1 cubic yard crushed aggregates = 2 tons http://www.summitgravel.com/calculator.html

350 horsepower Diesel-Engine Generator

Assumptions:

Generator Rating	350	hp
Daily Operating Schedule	8	hr/day
Operating Days	5.00	days/yr
Load Factor	0.74	

Emissions Calculations:

	VOC	NOx	CO	SOx	PM10	PM2.5	CO2	CH4
gm/bhp-hr	0.20	2.06	1.02	0.01	0.06	0.06	568.30	0.02
lb/hr	0.11	1.17	0.58	0.00	0.03540	0.04	324.49	0.01
lb/day	0.91	9.39	4.64	0.02	0.28	0.28	2595.93	0.08
lb/year	4.55	46.96	23.18	0.11	1.42	1.42	12979.67	0.41
ton/year	0.00	0.02	0.01	0.00	0.00	0.00		
metric ton/yr							5.89	0.00

156 horsepower Diesel-Engine Generator

Assumptions:

Generator Rating	156	hp
Daily Operating Schedule	8	hr/day
Operating Days	5.00	days/yr
Load Factor	0.74	

Emissions Calculations:

	VOC	NOx	CO	SOx	PM10	PM2.5	CO2	CH4
gm/bhp-hr	0.29	2.67	2.93	0.01	0.12	0.12	568.30	0.03
lb/hr	0.07	0.68	0.75	0.00	0.03003	0.03	144.63	0.01
lb/day	0.59	5.43	5.96	0.01	0.24	0.24	1157.04	0.05
lb/year	2.95	27.17	29.82	0.06	1.20	1.20	5785.22	0.26
ton/year	0.00	0.01	0.01	0.00	0.00	0.00		
metric ton/yr							2.62	0.00

325 horsepower Diesel-Engine Generator

Assumptions:

Generator Rating	325	hp
Daily Operating Schedule	8	hr/day
Operating Days	5.00	days/yr
Load Factor	0.74	

Emissions Calculations:

	VOC	NOx	CO	SOx	PM10	PM2.5	CO2	CH4
gm/bhp-hr	0.20	2.06	1.02	0.01	0.06	0.06	568.30	0.02
lb/hr	0.11	1.09	0.54	0.00	0.0329	0.03	301.31	0.01
lb/day	0.84	8.72	4.31	0.02	0.26	0.26	2410.51	0.08
lb/year	4.22	43.60	21.53	0.11	1.31	1.31	12052.55	0.38
ton/year	0.00	0.02	0.01	0.00	0.00	0.00		
metric ton/yr							5.47	0.00

85 horsepower Diesel-Engine Generator

Assumptions:

Generator Rating	85	hp
Daily Operating Schedule	8	hr/day
Operating Days	5.00	days/yr
Load Factor	0.74	

Emissions Calculations:

	VOC	NOx	CO	SOx	PM10	PM2.5	CO2	CH4
gm/bhp-hr	0.46	3.75	3.42	0.01	0.24	0.24	568.30	0.04
lb/hr	0.06	0.52	0.47	0.00	0.03314	0.03	78.81	0.01
lb/day	0.51	4.16	3.79	0.01	0.27	0.27	630.44	0.05
lb/year	2.56	20.81	18.96	0.03	1.33	1.33	3152.21	0.23
ton/year	0.00	0.01	0.01	0.00	0.00	0.00		
metric ton/yr							1.43	0.00

Diesel-Engine Generator Emission Summary

	VOC	NOx	CO	SOx	PM10	PM2.5	CO2	CH4
lb/day	2.85	27.71	18.70	0.06	1.05	1.05	6793.93	0.26
ton/year	0.01	0.07	0.05	0.00	0.00	0.00		
metric ton/yr							15.41	0.00

2021 Operation Mobile Source Assumptions Summary

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Vineyard III Delivery Trucks	HHDT and MHDT	7.9	21	166	1,092	8,627
Vineyard III Employees	LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite	18.5	20	370	7,300	135,050
Vineyard III Customers	LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite	10.1	4,392	44,359	1,603,080	16,191,108

Notes:

*Vineyard III delivery truck, employees/customers trip distance assumed CalEEMod default.

*Vineyard III delivery trucks assumed 21 trucks per week, but assumed 21 trucks per day as worst-case. Data provided by applicant.

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Vineyard III Delivery Trucks	HHDT and MHDT	7.9	21	166	1,092	8,627
Vineyard III Employees	LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite	18.5	20	370	7,300	135,050
Vineyard III Customers	LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite	10.1	4392	44,359	1,603,080	16,191,108

Project Vehicle	EMFAC Class	Max Daily Trips (trips/day)	Annual Trips (trips/year)
Vineyard III Delivery Trucks	HHDT and MHDT	21	1,092
Vineyard III Employees	LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite	20	7,300
Vineyard III Customers	LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite	4,392	1,603,080

Project Vehicle	EMFAC Class	Idling Minutes per Day (min/day)	Idling Minutes per Year (min/year)
Vineyard III Delivery Trucks	HHDT and MHDT	315	16,380

2021 Operation Mobile Source Assumptions Summary

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Vineyard III Delivery Trucks	HHDT and MHDT	7.9	21	166	1,092	8,627
Vineyard III Employees	LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite	18.5	20	370	7,300	135,050
Vineyard III Customers	LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite	10.1	4,392	44,359	1,603,080	16,191,108

Notes:

*Vineyard III delivery truck, employees/customers trip distance assumed CalEEMod default.

*Vineyard III delivery trucks assumed 21 trucks per week, but assumed 21 trucks per day as worst-case. Data provided by applicant.

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Vineyard III Delivery Trucks	HHDT and MHDT	7.9	21	166	1,092	8,627
Vineyard III Employees	LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite	18.5	20	370	7,300	135,050
Vineyard III Customers	LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite	10.1	4392	44,359	1,603,080	16,191,108

Project Vehicle	EMFAC Class	Max Daily Trips (trips/day)	Annual Trips (trips/year)
Vineyard III Delivery Trucks	HHDT and MHDT	21	1,092
Vineyard III Employees	LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite	20	7,300
Vineyard III Customers	LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite	4,392	1,603,080

Project Vehicle	EMFAC Class	Idling Minutes per Day (min/day)	Idling Minutes per Year (min/year)
Vineyard III Delivery Trucks	HHDT and MHDT	315	16,380

2021 Operation Mobile Source Emissions Summary - Annual Emissions

Emissions - Annual

	ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	CO2e
	(Tons/Year)						(Metric Tons/Year)			
	Running Exhaust, Tire Wear, and Break Wear									
Vineyard III Delivery Trucks	0.00	0.03	0.00	0.00	0.00	0.00	10.88	0.00	0.00	11.39
Vineyard III Employees	0.00	0.02	0.15	0.00	0.00	0.00	43.53	0.00	0.00	43.92
Vineyard III Customers	0.49	2.39	17.50	0.06	0.04	0.03	5,218.98	0.15	0.14	5,265.08
Subtotal	0.50	2.44	17.65	0.06	0.04	0.03	5,273.39	0.15	0.14	5,320.39

	PM10	PM2.5
	Paved Road - PM only	
Vineyard III Delivery Trucks	0.02	0.00
Vineyard III Employees	0.04	0.01
Vineyard III Customers	5.35	1.31
Subtotal	*5.41*	*1.33*

	ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	CO2e
	Starting Exhaust, Hot Soak, Running Loss Evaporative, Resting Loss Evap, Diurnal Loss Evap									
Vineyard III Delivery Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vineyard III Employees	0.00	0.00	0.02	0.00	0.00	0.00	0.43	0.00	0.00	0.50
Vineyard III Customers	0.52	0.45	4.14	0.00	0.00	0.00	93.41	0.10	0.05	109.54
Subtotal	*0.52*	*0.46*	*4.15*	*0.00*	*0.00*	*0.00*	*93.84*	*0.10*	*0.05*	*110.04*

	ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	CO2e
	Idling									
Vineyard III Delivery Trucks	0.00	0.04	0.02	0.00	0.00	0.00	4.77	0.00	0.00	4.99
Subtotal	*0.00*	*0.04*	*0.02*	*0.00*	*0.00*	*0.00*	*4.77*	*0.00*	*0.00*	*4.99*
TOTAL	**1.02**	**2.93**	**21.83**	**0.06**	**5.45**	**1.37**	**5,371.99**	**0.25**	**0.19**	**5,435.42**

2021 Operation Mobile Source Emissions Factors - EMFAC2017 Annual

Emission Factors: Summary

Project Vehicle	Vehicle Classes	Fuel	Speed	ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O
				Running Exhaust, Tire Wear, and Break Wear (grams/mile)								
Vineyard III Delivery Trucks	HHDT and MHDT	Diesel	Aggregate	0.077	2.953	0.338	0.012	0.062	0.059	1,261.156	0.004	0.198
Vineyard III Employees/Customers	LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite	Gas, Electric, & Diesel (Aggregate)	Aggregate	0.028	0.134	0.981	0.003	0.002	0.002	322.336	0.009	0.009

Project Vehicle	Vehicle Classes	PM10	PM2.5
		Paved Road - PM Only (grams/mile)	
Vineyard III Delivery Trucks	HHDT and MHDT	1.680	0.412
Vineyard III Employees/Customers	LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite	0.300	0.074

Project Vehicle	Vehicle Classes	Fuel	ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O
			Starting Exhaust, Hot Soak, Running Loss Evaporative, Resting Loss Evap, Diurnal Loss Evap								
Vineyard III Delivery Trucks	HHDT and MHDT	Diesel	0.000	1.868	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Vineyard III Employees/Customers	LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite	Gas, Electric, & Diesel (Aggregate)	0.293	0.256	2.341	0.001	0.002	0.002	58.272	0.060	0.029

Project Vehicle	Vehicle Classes	Fuel	ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O
			Idling (grams/Idle-min/vehicle)								
Vineyard III Delivery Trucks	HHDT and MHDT	Diesel	0.082	2.186	1.199	0.003	0.000	0.006	291.010	0.004	0.046
Vineyard III Employees/Customers	LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite	Gas, Electric, & Diesel (Aggregate)	0.005889	0.028059	0.048586	0.000031	0.000306	0.000293	3.239551	0.001336	0.000341

Table 5. Operation Mobile Source Emissions Factors - EMFAC2017 Annual ROG

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	ROG_RUNEX (g/mile)	ROG_IDLEX (g/vehicle/day)	ROG_STREX (g/trip)	ROG_HOTSOAK (g/trip)	ROG_RUNLOSS (g/trip)	ROG_RESTLOSS (g/vehicle/day)	ROG_DIURN (g/vehicle/day)	ROG_RESTLOSS - Calculated (g/trip)	ROG_DIURN - Calculated (g/trip)	STEX HOTSOAK RUNLOSS ROG RESTLOSS DIURN_Combined - Calculated (g/trip)
RIVERSIDE	2021	HHDT	DSL	Aggregated	27,250.49	3,825,933.40	312,944.63	0.069391519	6.674635605	0	0	0	0	0			
RIVERSIDE	2021	MHDT	DSL	Aggregated	15,756.36	963,068.11	151,121.37	0.10899857	0.121790715	0	0	0	0	0			
						HHDT and MHDT Composite		**0.0774**	**5.3569**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	-	-	**0.0000**
RIVERSIDE	2021	LDA	GAS	Aggregated	750,300.86	29,816,029.44	3,552,291.91	0.009602328	0	0.232795569	0.105402549	0.217491148	0.261009473	0.343407408			
RIVERSIDE	2021	LDA	DSL	Aggregated	6,761.58	284,051.95	32,376.68	0.013990238	0	0	0	0	0	0			
RIVERSIDE	2021	LDA	ELEC	Aggregated	10,150.83	397,377.33	51,147.17	0	0	0	0.004888026	0	0.013145373	0.033904195			
RIVERSIDE	2021	LDT1	GAS	Aggregated	80,587.48	3,017,205.80	366,690.86	0.035483076	0	0.4430479	0.276223349	0.875954458	0.698940383	1.041787216			
RIVERSIDE	2021	LDT1	DSL	Aggregated	42.62	937.32	139.37	0.227241534	0	0	0	0	0	0			
RIVERSIDE	2021	LDT1	ELEC	Aggregated	312.67	12,704.03	1,592.30	0	0	0	0.004888026	0	0.013202439	0.03399097			
RIVERSIDE	2021	LDT2	GAS	Aggregated	246,596.51	9,631,963.54	1,154,462.90	0.017413067	0	0.338115375	0.142999259	0.44812701	0.42344546	0.528792856			
RIVERSIDE	2021	LDT2	DSL	Aggregated	1,288.99	58,422.34	6,390.04	0.014644006	0	0	0	0	0	0			
RIVERSIDE	2021	LDT2	ELEC	Aggregated	1,692.17	54,349.02	8,602.01	0	0	0	0.004888026	0	0.013449975	0.034377089			
RIVERSIDE	2021	LHDT1	GAS	Aggregated	20,885.97	692,854.05	311,169.90	0.030362952	0.45664908	0.139394104	0.144875353	0.900016328	0.041950008	0.085619247			
RIVERSIDE	2021	LHDT1	DSL	Aggregated	19,999.78	695,951.65	251,572.05	0.091595351	0.109759705	0	0	0	0	0			
RIVERSIDE	2021	LHDT2	GAS	Aggregated	3,292.65	108,726.45	49,055.53	0.019210087	0.458215314	0.131349004	0.126802162	0.737443749	0.037248979	0.074591692			
RIVERSIDE	2021	LHDT2	DSL	Aggregated	7,676.54	267,713.75	96,561.22	0.078330325	0.109759705	0	0	0	0	0			
RIVERSIDE	2021	MCY	GAS	Aggregated	35,659.72	267,522.39	71,319.43	2.157384874	0	1.828464455	0.840959534	1.867062557	1.80281581	3.312416247			
RIVERSIDE	2021	MDV	GAS	Aggregated	208,791.37	7,677,992.85	957,457.85	0.025925117	0	0.456295816	0.174547058	0.511157277	0.524858515	0.623929058			
RIVERSIDE	2021	MDV	DSL	Aggregated	3,985.67	171,354.65	19,488.50	0.011055038	0	0	0	0	0	0			
RIVERSIDE	2021	MDV	ELEC	Aggregated	787.11	25,973.70	4,035.65	0	0	0	0.004888026	0	0.013408762	0.034304648			
RIVERSIDE	2021	MH	GAS	Aggregated	6,261.09	50,694.81	626.36	0.057242631	0	0.136560801	0.097487626	2.083301676	0.062971744	0.181426509			
RIVERSIDE	2021	MH	DSL	Aggregated	2,593.42	21,461.99	259.34	0.071834435	0	0	0	0	0	0			
RIVERSIDE	2021	OBUS	GAS	Aggregated	589.48	27,261.01	11,794.32	0.052213006	0.745348379	0.160062539	0.030393095	0.330608581	0.028509534	0.066611643			
RIVERSIDE	2021	OBUS	DSL	Aggregated	347.99	24,855.13	3,314.36	0.121553962	1.087356733	0	0	0	0	0			
RIVERSIDE	2021	SBUS	GAS	Aggregated	475.47	19,228.88	1,901.89	0.039291887	10.6396621	0.315546527	0.067865525	0.418297024	0.019666069	0.041178415			
RIVERSIDE	2021	SBUS	DSL	Aggregated	1,131.96	35,858.76	13,062.61	0.125658958	0.279787069	0	0	0	0	0			
RIVERSIDE	2021	UBUS	GAS	Aggregated	163.48	23,017.82	653.94	0.011494717	0	0.214912296	0.028475413	0.136212861	0.008311322	0.013981999			
RIVERSIDE	2021	UBUS	DSL	Aggregated	1.11	58.57	4.42	0.000534846	0	0	0	0	0	0			
RIVERSIDE	2021	UBUS	ELEC	Aggregated	5.06	271.53	20.23	0	0	0	0	0	0	0			
RIVERSIDE	2021	UBUS	NG	Aggregated	306.62	41,979.73	1,226.49	0.077260262	0	0	0	0	0	0			
						LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite		**0.0275**	**0.0137**	**0.2931**	**0.1318**	**0.3500**	**0.3468**	**0.4539**	**0.076364**	**0.103926**	**0.9552**

EMFAC2017 (v1.0.2) Emission Rates
Region Type: County
Region: RIVERSIDE
Calendar Year: 2021
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN
Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day
OBUS	5.9	min/day

Table 6. Operation Mobile Source Emissions Factors - EMFAC2017 Annual TOG

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	TOG_RUNEX (g/mile)	TOG_IDLEX (g/vehicle/day)	TOG_STREX (g/trip)	TOG_HOTSOAK (g/trip)	TOG_RUNLOSS (g/trip)	TOG_RESTLOSS (g/vehicle/day)	TOG_DIURN (g/vehicle/day)	TOG_RESTLOSS - Calculated (g/trip)	TOG_DIURN - Calculated (g/trip)	STEX HOTSOAK RUNLOSS TOG RESTLOSS DIURN_Combined - Calculated (g/trip)
RIVERSIDE	2021	HHDT	DSL	Aggregated	27,250.49	3,825,933.40	312,944.63	0.078996962	7.598564555	0	0	0	0	0			
RIVERSIDE	2021	MHDT	DSL	Aggregated	15,756.36	963,068.11	151,121.37	0.124086575	0.138649458	0	0	0	0	0			
						HHDT and MHDT Composite		**0.0881**	**6.0984**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	-	-	**0.0000**
RIVERSIDE	2021	LDA	GAS	Aggregated	750,300.86	29,816,029.44	3,552,291.91	0.014002226	0	0.254880348	0.105402549	0.217491148	0.261009473	0.343407408			
RIVERSIDE	2021	LDA	DSL	Aggregated	6,761.58	284,051.95	32,376.68	0.015926956	0	0	0	0	0	0			
RIVERSIDE	2021	LDA	ELEC	Aggregated	10,150.83	397,377.33	51,147.17	0	0	0	0.004888026	0	0.013145373	0.033904195			
RIVERSIDE	2021	LDT1	GAS	Aggregated	80,587.48	3,017,205.80	366,690.86	0.051733644	0	0.485078669	0.276223349	0.875954458	0.698940383	1.041787216			
RIVERSIDE	2021	LDT1	DSL	Aggregated	42.62	937.32	139.37	0.258699378	0	0	0	0	0	0			
RIVERSIDE	2021	LDT1	ELEC	Aggregated	312.67	12,704.03	1,592.30	0	0	0	0.004888026	0	0.013202439	0.03399097			
RIVERSIDE	2021	LDT2	GAS	Aggregated	246,596.51	9,631,963.54	1,154,462.90	0.025390862	0	0.370192498	0.142999259	0.44812701	0.42344546	0.528792856			
RIVERSIDE	2021	LDT2	DSL	Aggregated	1,288.99	58,422.34	6,390.04	0.016671227	0	0	0	0	0	0			
RIVERSIDE	2021	LDT2	ELEC	Aggregated	1,692.17	54,349.02	8,602.01	0	0	0	0.004888026	0	0.013449975	0.034377089			
RIVERSIDE	2021	LHDT1	GAS	Aggregated	20,885.97	692,854.05	311,169.90	0.044305549	0.666341266	0.152618998	0.144875353	0.900016328	0.041950008	0.085619247			
RIVERSIDE	2021	LHDT1	DSL	Aggregated	19,999.78	695,951.65	251,572.05	0.104275217	0.124954127	0	0	0	0	0			
RIVERSIDE	2021	LHDT2	GAS	Aggregated	3,292.65	108,726.45	49,055.53	0.028031314	0.66862671	0.143810626	0.126802162	0.737443749	0.037248979	0.074591692			
RIVERSIDE	2021	LHDT2	DSL	Aggregated	7,676.54	267,713.75	96,561.22	0.089173867	0.124954127	0	0	0	0	0			
RIVERSIDE	2021	MCY	GAS	Aggregated	35,659.72	267,522.39	71,319.43	2.653312451	0	1.989603115	0.840959534	1.867062557	1.80281581	3.312416247			
RIVERSIDE	2021	MDV	GAS	Aggregated	208,791.37	7,677,992.85	957,457.85	0.036736664	0	0.49954475	0.174547058	0.511157277	0.524858515	0.623929058			
RIVERSIDE	2021	MDV	DSL	Aggregated	3,985.67	171,354.65	19,488.50	0.012585426	0	0	0	0	0	0			
RIVERSIDE	2021	MDV	ELEC	Aggregated	787.11	25,973.70	4,035.65	0	0	0	0.004888026	0	0.013408762	0.034304648			
RIVERSIDE	2021	MH	GAS	Aggregated	6,261.09	50,694.81	626.36	0.083528312	0	0.149516887	0.097487626	2.083301676	0.062971744	0.181426509			
RIVERSIDE	2021	MH	DSL	Aggregated	2,593.42	21,461.99	259.34	0.081778728	0	0	0	0	0	0			
RIVERSIDE	2021	OBUS	GAS	Aggregated	589.48	27,261.01	11,794.32	0.076189096	1.087610606	0.175248333	0.030393095	0.330608581	0.028509534	0.066611643			
RIVERSIDE	2021	OBUS	DSL	Aggregated	347.99	24,855.13	3,314.36	0.138379933	1.237872869	0	0	0	0	0			
RIVERSIDE	2021	SBUS	GAS	Aggregated	475.47	19,228.88	1,901.89	0.05733463	15.52536996	0.345483729	0.067865525	0.418297024	0.019666069	0.041178415			
RIVERSIDE	2021	SBUS	DSL	Aggregated	1,131.96	35,858.76	13,062.61	0.143053159	0.318516281	0	0	0	0	0			
RIVERSIDE	2021	UBUS	GAS	Aggregated	163.48	23,017.82	653.94	0.016773063	0	0.235301913	0.028475413	0.136212861	0.008311322	0.013981999			
RIVERSIDE	2021	UBUS	DSL	Aggregated	1.11	58.57	4.42	0.03820325	0	0	0	0	0	0			
RIVERSIDE	2021	UBUS	ELEC	Aggregated	5.06	271.53	20.23	0	0	0	0	0	0	0			
RIVERSIDE	2021	UBUS	NG	Aggregated	306.62	41,979.73	1,226.49	5.321263218	0	0	0	0	0	0			
						LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite		**0.0410**	**0.0192**	**0.3209**	**0.1318**	**0.3500**	**0.3468**	**0.4539**	**0.076364**	**0.103926**	**0.9830**

EMFAC2017 (v1.0.2) Emission Rates
Region Type: County
Region: RIVERSIDE
Calendar Year: 2021
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN
Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day
OBUS	5.9	min/day

Table 7. Operation Mobile Source Emissions Factors - EMFAC2017 Annual NOx

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	NOx_RUNEX (g/mile)	NOx_IDLEX (g/vehicle/day)	NOx_STREX (g/trip)
RIVERSIDE	2021	HHDT	DSL	Aggregated	27,250.49	3,825,933.40	312,944.63	3.050302234	84.40707568	1.995305353
RIVERSIDE	2021	MHDT	DSL	Aggregated	15,756.36	963,068.11	151,121.37	2.566818528	8.291138795	1.360943231
							HHDT and MHDT Composite	**2.9531**	**69.1002**	**1.8677**
RIVERSIDE	2021	LDA	GAS	Aggregated	750,300.86	29,816,029.44	3,552,291.91	0.039864156	0	0.192556111
RIVERSIDE	2021	LDA	DSL	Aggregated	6,761.58	284,051.95	32,376.68	0.080306763	0	0
RIVERSIDE	2021	LDA	ELEC	Aggregated	10,150.83	397,377.33	51,147.17	0	0	0
RIVERSIDE	2021	LDT1	GAS	Aggregated	80,587.48	3,017,205.80	366,690.86	0.144167957	0	0.307163619
RIVERSIDE	2021	LDT1	DSL	Aggregated	42.62	937.32	139.37	1.247543591	0	0
RIVERSIDE	2021	LDT1	ELEC	Aggregated	312.67	12,704.03	1,592.30	0	0	0
RIVERSIDE	2021	LDT2	GAS	Aggregated	246,596.51	9,631,963.54	1,154,462.90	0.089809766	0	0.311572364
RIVERSIDE	2021	LDT2	DSL	Aggregated	1,288.99	58,422.34	6,390.04	0.049149933	0	0
RIVERSIDE	2021	LDT2	ELEC	Aggregated	1,692.17	54,349.02	8,602.01	0	0	0
RIVERSIDE	2021	LHDT1	GAS	Aggregated	20,885.97	692,854.05	311,169.90	0.231434959	0.039862667	0.560264737
RIVERSIDE	2021	LHDT1	DSL	Aggregated	19,999.78	695,951.65	251,572.05	2.970645252	2.32175026	0
RIVERSIDE	2021	LHDT2	GAS	Aggregated	3,292.65	108,726.45	49,055.53	0.206234884	0.039962831	0.566952777
RIVERSIDE	2021	LHDT2	DSL	Aggregated	7,676.54	267,713.75	96,561.22	2.407893841	2.321112538	0
RIVERSIDE	2021	MCY	GAS	Aggregated	35,659.72	267,522.39	71,319.43	1.127843452	0	0.261147401
RIVERSIDE	2021	MDV	GAS	Aggregated	208,791.37	7,677,992.85	957,457.85	0.122181986	0	0.401304159
RIVERSIDE	2021	MDV	DSL	Aggregated	3,985.67	171,354.65	19,488.50	0.061111233	0	0
RIVERSIDE	2021	MDV	ELEC	Aggregated	787.11	25,973.70	4,035.65	0	0	0
RIVERSIDE	2021	MH	GAS	Aggregated	6,261.09	50,694.81	626.36	0.44409332	0	0.325639823
RIVERSIDE	2021	MH	DSL	Aggregated	2,593.42	21,461.99	259.34	4.426018795	0	0
RIVERSIDE	2021	OBUS	GAS	Aggregated	589.48	27,261.01	11,794.32	0.454755104	0.064999573	0.322250687
RIVERSIDE	2021	OBUS	DSL	Aggregated	347.99	24,855.13	3,314.36	3.058263078	19.2050775	1.543663927
RIVERSIDE	2021	SBUS	GAS	Aggregated	475.47	19,228.88	1,901.89	0.315026804	0.926404313	0.565308493
RIVERSIDE	2021	SBUS	DSL	Aggregated	1,131.96	35,858.76	13,062.61	7.228572669	46.77649668	0.714016556
RIVERSIDE	2021	UBUS	GAS	Aggregated	163.48	23,017.82	653.94	0.135055083	0	0.532333276
RIVERSIDE	2021	UBUS	DSL	Aggregated	1.11	58.57	4.42	0.47742212	0	0
RIVERSIDE	2021	UBUS	ELEC	Aggregated	5.06	271.53	20.23	0	0	0
RIVERSIDE	2021	UBUS	NG	Aggregated	306.62	41,979.73	1,226.49	0.4164713	0	0
							LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite	**0.1339**	**0.0888**	**0.2557**

Table 8. Operation Mobile Source Emissions Factors - EMFAC2017 Annual CO

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	CO_RUNEX (g/mile)	CO_IDLEX (g/vehicle/day)	CO_STREX (g/trip)
RIVERSIDE	2021	HHDT	DSL	Aggregated	27,250.49	3,825,933.40	312,944.63	0.315149187	86.88741073	0
RIVERSIDE	2021	MHDT	DSL	Aggregated	15,756.36	963,068.11	151,121.37	0.428592321	2.373493441	0
							HHDT and MHDT Composite	**0.3380**	**69.8917**	**0.0000**
RIVERSIDE	2021	LDA	GAS	Aggregated	750,300.86	29,816,029.44	3,552,291.91	0.674064731	0	2.173111601
RIVERSIDE	2021	LDA	DSL	Aggregated	6,761.58	284,051.95	32,376.68	0.189719211	0	0
RIVERSIDE	2021	LDA	ELEC	Aggregated	10,150.83	397,377.33	51,147.17	0	0	0
RIVERSIDE	2021	LDT1	GAS	Aggregated	80,587.48	3,017,205.80	366,690.86	1.624369681	0	2.437699549
RIVERSIDE	2021	LDT1	DSL	Aggregated	42.62	937.32	139.37	1.392250777	0	0
RIVERSIDE	2021	LDT1	ELEC	Aggregated	312.67	12,704.03	1,592.30	0	0	0
RIVERSIDE	2021	LDT2	GAS	Aggregated	246,596.51	9,631,963.54	1,154,462.90	0.991721846	0	2.768784232
RIVERSIDE	2021	LDT2	DSL	Aggregated	1,288.99	58,422.34	6,390.04	0.113342345	0	0
RIVERSIDE	2021	LDT2	ELEC	Aggregated	1,692.17	54,349.02	8,602.01	0	0	0
RIVERSIDE	2021	LHDT1	GAS	Aggregated	20,885.97	692,854.05	311,169.90	0.815113183	3.750864443	1.738369425
RIVERSIDE	2021	LHDT1	DSL	Aggregated	19,999.78	695,951.65	251,572.05	0.631982506	0.909745076	0
RIVERSIDE	2021	LHDT2	GAS	Aggregated	3,292.65	108,726.45	49,055.53	0.516036149	3.761022038	1.656369869
RIVERSIDE	2021	LHDT2	DSL	Aggregated	7,676.54	267,713.75	96,561.22	0.53222324	0.909745076	0
RIVERSIDE	2021	MCY	GAS	Aggregated	35,659.72	267,522.39	71,319.43	19.61497932	0	8.553402736
RIVERSIDE	2021	MDV	GAS	Aggregated	208,791.37	7,677,992.85	957,457.85	1.227675544	0	3.349814856
RIVERSIDE	2021	MDV	DSL	Aggregated	3,985.67	171,354.65	19,488.50	0.180662093	0	0
RIVERSIDE	2021	MDV	ELEC	Aggregated	787.11	25,973.70	4,035.65	0	0	0
RIVERSIDE	2021	MH	GAS	Aggregated	6,261.09	50,694.81	626.36	1.818117839	0	2.958231148
RIVERSIDE	2021	MH	DSL	Aggregated	2,593.42	21,461.99	259.34	0.338926164	0	0
RIVERSIDE	2021	OBUS	GAS	Aggregated	589.48	27,261.01	11,794.32	1.364708688	5.769076586	3.300435244
RIVERSIDE	2021	OBUS	DSL	Aggregated	347.99	24,855.13	3,314.36	0.446632891	11.8662288	0
RIVERSIDE	2021	SBUS	GAS	Aggregated	475.47	19,228.88	1,901.89	0.867224067	82.22963641	7.364606276
RIVERSIDE	2021	SBUS	DSL	Aggregated	1,131.96	35,858.76	13,062.61	0.345841154	5.536053612	0
RIVERSIDE	2021	UBUS	GAS	Aggregated	163.48	23,017.82	653.94	0.192054476	0	4.380533465
RIVERSIDE	2021	UBUS	DSL	Aggregated	1.11	58.57	4.42	0.05712856	0	0
RIVERSIDE	2021	UBUS	ELEC	Aggregated	5.06	271.53	20.23	0	0	0
RIVERSIDE	2021	UBUS	NG	Aggregated	306.62	41,979.73	1,226.49	40.43881597	0	0
							LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite	**0.9808**	**0.1197**	**2.3405**

Table 9. Operation Mobile Source Emissions Factors - EMFAC2017 Annual SO2

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	SO2_RUNEX (g/mile)	SO2_IDLEX (g/vehicle/day)	SO2_STREX (g/trip)
RIVERSIDE	2021	HHDT	DSL	Aggregated	27,250.49	3,825,933.40	312,944.63	0.012699034	0.153114387	0
RIVERSIDE	2021	MHDT	DSL	Aggregated	15,756.36	963,068.11	151,121.37	0.008799184	0.007909469	0
						HHDT and MHDT Composite		**0.0119**	**0.1239**	**0.0000**
RIVERSIDE	2021	LDA	GAS	Aggregated	750,300.86	29,816,029.44	3,552,291.91	0.002672291	0	0.000554362
RIVERSIDE	2021	LDA	DSL	Aggregated	6,761.58	284,051.95	32,376.68	0.001891571	0	0
RIVERSIDE	2021	LDA	ELEC	Aggregated	10,150.83	397,377.33	51,147.17	0	0	0
RIVERSIDE	2021	LDT1	GAS	Aggregated	80,587.48	3,017,205.80	366,690.86	0.003149954	0	0.000662585
RIVERSIDE	2021	LDT1	DSL	Aggregated	42.62	937.32	139.37	0.003763271	0	0
RIVERSIDE	2021	LDT1	ELEC	Aggregated	312.67	12,704.03	1,592.30	0	0	0
RIVERSIDE	2021	LDT2	GAS	Aggregated	246,596.51	9,631,963.54	1,154,462.90	0.003375768	0	0.00071679
RIVERSIDE	2021	LDT2	DSL	Aggregated	1,288.99	58,422.34	6,390.04	0.002539802	0	0
RIVERSIDE	2021	LDT2	ELEC	Aggregated	1,692.17	54,349.02	8,602.01	0	0	0
RIVERSIDE	2021	LHDT1	GAS	Aggregated	20,885.97	692,854.05	311,169.90	0.007859241	0.001212097	0.000188572
RIVERSIDE	2021	LHDT1	DSL	Aggregated	19,999.78	695,951.65	251,572.05	0.004598077	0.001301516	0
RIVERSIDE	2021	LHDT2	GAS	Aggregated	3,292.65	108,726.45	49,055.53	0.009007009	0.001397857	0.000214203
RIVERSIDE	2021	LHDT2	DSL	Aggregated	7,676.54	267,713.75	96,561.22	0.00499739	0.002091665	0
RIVERSIDE	2021	MCY	GAS	Aggregated	35,659.72	267,522.39	71,319.43	0.002061273	0	0.000600999
RIVERSIDE	2021	MDV	GAS	Aggregated	208,791.37	7,677,992.85	957,457.85	0.004197854	0	0.000899597
RIVERSIDE	2021	MDV	DSL	Aggregated	3,985.67	171,354.65	19,488.50	0.003439686	0	0
RIVERSIDE	2021	MDV	ELEC	Aggregated	787.11	25,973.70	4,035.65	0	0	0
RIVERSIDE	2021	MH	GAS	Aggregated	6,261.09	50,694.81	626.36	0.016661535	0	0.000260362
RIVERSIDE	2021	MH	DSL	Aggregated	2,593.42	21,461.99	259.34	0.008903009	0	0
RIVERSIDE	2021	OBUS	GAS	Aggregated	589.48	27,261.01	11,794.32	0.016555384	0.003784506	0.000264424
RIVERSIDE	2021	OBUS	DSL	Aggregated	347.99	24,855.13	3,314.36	0.010541024	0.023938106	0
RIVERSIDE	2021	SBUS	GAS	Aggregated	475.47	19,228.88	1,901.89	0.008816003	0.026319934	0.000472023
RIVERSIDE	2021	SBUS	DSL	Aggregated	1,131.96	35,858.76	13,062.61	0.011673226	0.035266119	0
RIVERSIDE	2021	UBUS	GAS	Aggregated	163.48	23,017.82	653.94	0.013790793	0	0.000521224
RIVERSIDE	2021	UBUS	DSL	Aggregated	1.11	58.57	4.42	0.010787911	0	0
RIVERSIDE	2021	UBUS	ELEC	Aggregated	5.06	271.53	20.23	0	0	0
RIVERSIDE	2021	UBUS	NG	Aggregated	306.62	41,979.73	1,226.49	0	0	0
						LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite		**0.0032**	**0.0001**	**0.0006**

Table 10. Operation Mobile Source Emissions Factors - EMFAC2017 Annual PM10

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	PM10_RUNEX	PM10_IDLEX	PM10_STREX	PM10_PMTW	PM10_PMBW	PM10_Combined - Calculated
								(g/mile)	(g/vehicle/day)	(g/trip)	(g/mile)	(g/mile)	(g/mile)
RIVERSIDE	2021	HHDT	DSL	Aggregated	27,250.49	3,825,933.40	312,944.63	0.054452552	0.123348315	0	0.035593372	0.061042633	
RIVERSIDE	2021	MHDT	DSL	Aggregated	15,756.36	963,068.11	151,121.37	0.090642513	0.029216617	0	0.012000003	0.130340037	
							HHDT and MHDT Composite	**0.0617**	**0.1044**	**0.0000**	**0.0308**	**0.0750**	**0.167557**
RIVERSIDE	2021	LDA	GAS	Aggregated	750,300.86	29,816,029.44	3,552,291.91	0.001407186	0	0.001964077	0.008000002	0.036750011	
RIVERSIDE	2021	LDA	DSL	Aggregated	6,761.58	284,051.95	32,376.68	0.007645761	0	0	0.008000002	0.036750011	
RIVERSIDE	2021	LDA	ELEC	Aggregated	10,150.83	397,377.33	51,147.17	0	0	0	0.008000002	0.036750011	
RIVERSIDE	2021	LDT1	GAS	Aggregated	80,587.48	3,017,205.80	366,690.86	0.002249763	0	0.002965001	0.008000002	0.036750011	
RIVERSIDE	2021	LDT1	DSL	Aggregated	42.62	937.32	139.37	0.174163625	0	0	0.008000002	0.036750011	
RIVERSIDE	2021	LDT1	ELEC	Aggregated	312.67	12,704.03	1,592.30	0	0	0	0.008000002	0.036750011	
RIVERSIDE	2021	LDT2	GAS	Aggregated	246,596.51	9,631,963.54	1,154,462.90	0.001479348	0	0.001983814	0.008000002	0.036750011	
RIVERSIDE	2021	LDT2	DSL	Aggregated	1,288.99	58,422.34	6,390.04	0.006020956	0	0	0.008000002	0.036750011	
RIVERSIDE	2021	LDT2	ELEC	Aggregated	1,692.17	54,349.02	8,602.01	0	0	0	0.008000002	0.036750011	
RIVERSIDE	2021	LHDT1	GAS	Aggregated	20,885.97	692,854.05	311,169.90	0.001074259	0	0.000420534	0.008000002	0.076440022	
RIVERSIDE	2021	LHDT1	DSL	Aggregated	19,999.78	695,951.65	251,572.05	0.02102497	0.027286864	0	0.012000003	0.076440022	
RIVERSIDE	2021	LHDT2	GAS	Aggregated	3,292.65	108,726.45	49,055.53	0.000915661	0	0.000339466	0.008000002	0.089180026	
RIVERSIDE	2021	LHDT2	DSL	Aggregated	7,676.54	267,713.75	96,561.22	0.019395893	0.027303987	0	0.012000003	0.089180026	
RIVERSIDE	2021	MCY	GAS	Aggregated	35,659.72	267,522.39	71,319.43	0.001757318	0	0.002866434	0.004000001	0.011760003	
RIVERSIDE	2021	MDV	GAS	Aggregated	208,791.37	7,677,992.85	957,457.85	0.001495188	0	0.002105384	0.008000002	0.036750011	
RIVERSIDE	2021	MDV	DSL	Aggregated	3,985.67	171,354.65	19,488.50	0.005282657	0	0	0.008000002	0.036750011	
RIVERSIDE	2021	MDV	ELEC	Aggregated	787.11	25,973.70	4,035.65	0	0	0	0.008000002	0.036750011	
RIVERSIDE	2021	MH	GAS	Aggregated	6,261.09	50,694.81	626.36	0.001208637	0	0.000354272	0.012000003	0.130340037	
RIVERSIDE	2021	MH	DSL	Aggregated	2,593.42	21,461.99	259.34	0.144090167	0	0	0.016000005	0.130340037	
RIVERSIDE	2021	OBUS	GAS	Aggregated	589.48	27,261.01	11,794.32	0.000689727	0	0.000242813	0.012000003	0.130340037	
RIVERSIDE	2021	OBUS	DSL	Aggregated	347.99	24,855.13	3,314.36	0.080687755	0.077083029	0	0.012000003	0.130340037	
RIVERSIDE	2021	SBUS	GAS	Aggregated	475.47	19,228.88	1,901.89	0.000741736	0	0.0003123	0.008000002	0.744800204	
RIVERSIDE	2021	SBUS	DSL	Aggregated	1,131.96	35,858.76	13,062.61	0.044060934	0.053747619	0	0.012000003	0.744800213	
RIVERSIDE	2021	UBUS	GAS	Aggregated	163.48	23,017.82	653.94	0.001140864	0	0.000470171	0.009546243	0.105090841	
RIVERSIDE	2021	UBUS	DSL	Aggregated	1.11	58.57	4.42	0.004292743	0	0	0.012000007	0.130340079	
RIVERSIDE	2021	UBUS	ELEC	Aggregated	5.06	271.53	20.23	0	0	0	0.035889386	0.06205627	
RIVERSIDE	2021	UBUS	NG	Aggregated	306.62	41,979.73	1,226.49	0.003934649	0	0	0.028616727	0.078554835	
							LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite	**0.0020**	**0.0006**	**0.0018**	**0.0081**	**0.0390**	**0.049106**

Table 11. Operation Mobile Source Emissions Factors - EMFAC2017 Annual PM2.5

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	PM2.5_RUNEX (g/mile)	PM2.5_IDLEX (g/vehicle/day)	PM2.5_STREX (g/trip)	PM2.5_PMTW (g/mile)	PM2.5_PMBW (g/mile)	PM2.5_Combined - Calculated (g/mile)
RIVERSIDE	2021	HHDT	DSL	Aggregated	27,250.49	3,825,933.40	312,944.63	0.052096959	0.118012321	0	0.008898343	0.026161128	
RIVERSIDE	2021	MHDT	DSL	Aggregated	15,756.36	963,068.11	151,121.37	0.086721358	0.027952719	0	0.003000001	0.055860016	
						HHDT and MHDT Composite		**0.0591**	**0.0999**	**0.0000**	**0.0077**	**0.0321**	**0.098906**
RIVERSIDE	2021	LDA	GAS	Aggregated	750,300.86	29,816,029.44	3,552,291.91	0.001293882	0	0.001805983	0.002000001	0.015750005	
RIVERSIDE	2021	LDA	DSL	Aggregated	6,761.58	284,051.95	32,376.68	0.007315009	0	0	0.002000001	0.015750005	
RIVERSIDE	2021	LDA	ELEC	Aggregated	10,150.83	397,377.33	51,147.17	0	0	0	0.002000001	0.015750005	
RIVERSIDE	2021	LDT1	GAS	Aggregated	80,587.48	3,017,205.80	366,690.86	0.002068731	0	0.002726449	0.002000001	0.015750005	
RIVERSIDE	2021	LDT1	DSL	Aggregated	42.62	937.32	139.37	0.166629383	0	0	0.002000001	0.015750005	
RIVERSIDE	2021	LDT1	ELEC	Aggregated	312.67	12,704.03	1,592.30	0	0	0	0.002000001	0.015750005	
RIVERSIDE	2021	LDT2	GAS	Aggregated	246,596.51	9,631,963.54	1,154,462.90	0.001360267	0	0.001824137	0.002000001	0.015750005	
RIVERSIDE	2021	LDT2	DSL	Aggregated	1,288.99	58,422.34	6,390.04	0.005760492	0	0	0.002000001	0.015750005	
RIVERSIDE	2021	LDT2	ELEC	Aggregated	1,692.17	54,349.02	8,602.01	0	0	0	0.002000001	0.015750005	
RIVERSIDE	2021	LHDT1	GAS	Aggregated	20,885.97	692,854.05	311,169.90	0.000987741	0	0.000386665	0.002000001	0.032760009	
RIVERSIDE	2021	LHDT1	DSL	Aggregated	19,999.78	695,951.65	251,572.05	0.020115439	0.026106446	0	0.003000001	0.032760009	
RIVERSIDE	2021	LHDT2	GAS	Aggregated	3,292.65	108,726.45	49,055.53	0.000841916	0	0.000312126	0.002000001	0.038220011	
RIVERSIDE	2021	LHDT2	DSL	Aggregated	7,676.54	267,713.75	96,561.22	0.018556835	0.026122829	0	0.003000001	0.038220011	
RIVERSIDE	2021	MCY	GAS	Aggregated	35,659.72	267,522.39	71,319.43	0.001644228	0	0.002699911	0.001	0.005040001	
RIVERSIDE	2021	MDV	GAS	Aggregated	208,791.37	7,677,992.85	957,457.85	0.001375619	0	0.001937165	0.002000001	0.015750005	
RIVERSIDE	2021	MDV	DSL	Aggregated	3,985.67	171,354.65	19,488.50	0.005054132	0	0	0.002000001	0.015750005	
RIVERSIDE	2021	MDV	ELEC	Aggregated	787.11	25,973.70	4,035.65	0	0	0	0.002000001	0.015750005	
RIVERSIDE	2021	MH	GAS	Aggregated	6,261.09	50,694.81	626.36	0.001111297	0	0.00032574	0.003000001	0.055860016	
RIVERSIDE	2021	MH	DSL	Aggregated	2,593.42	21,461.99	259.34	0.13785689	0	0	0.004000001	0.055860016	
RIVERSIDE	2021	OBUS	GAS	Aggregated	589.48	27,261.01	11,794.32	0.000634178	0	0.000223258	0.003000001	0.055860016	
RIVERSIDE	2021	OBUS	DSL	Aggregated	347.99	24,855.13	3,314.36	0.077197238	0.073748451	0	0.003000001	0.055860016	
RIVERSIDE	2021	SBUS	GAS	Aggregated	475.47	19,228.88	1,901.89	0.000681999	0	0.000287148	0.002000001	0.319200087	
RIVERSIDE	2021	SBUS	DSL	Aggregated	1,131.96	35,858.76	13,062.61	0.042154878	0.051422521	0	0.003000001	0.319200091	
RIVERSIDE	2021	UBUS	GAS	Aggregated	163.48	23,017.82	653.94	0.001048982	0	0.000432305	0.002386561	0.045038932	
RIVERSIDE	2021	UBUS	DSL	Aggregated	1.11	58.57	4.42	0.004107041	0	0	0.003000002	0.055860034	
RIVERSIDE	2021	UBUS	ELEC	Aggregated	5.06	271.53	20.23	0	0	0	0.008972347	0.026595544	
RIVERSIDE	2021	UBUS	NG	Aggregated	306.62	41,979.73	1,226.49	0.003764438	0	0	0.007154182	0.033666358	
						LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite		**0.0018**	**0.0006**	**0.0017**	**0.0020**	**0.0167**	**0.020600**

Table 12. Operation Mobile Source Emissions Factors - EMFAC2017 Annual CO2

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	CO2_RUNEX (g/mile)	CO2_IDLEX (g/vehicle/day)	CO2_STREX (g/trip)
RIVERSIDE	2021	HHDT	DSL	Aggregated	27,250.49	3,825,933.40	312,944.63	1344.168147	16206.861	0
RIVERSIDE	2021	MHDT	DSL	Aggregated	15,756.36	963,068.11	151,121.37	931.376529	837.2019975	0
						HHDT and MHDT Composite		**1261.1558**	**13116.0229**	**0.0000**
RIVERSIDE	2021	LDA	GAS	Aggregated	750,300.86	29,816,029.44	3,552,291.91	270.0426224	0	56.01990673
RIVERSIDE	2021	LDA	DSL	Aggregated	6,761.58	284,051.95	32,376.68	200.0901118	0	0
RIVERSIDE	2021	LDA	ELEC	Aggregated	10,150.83	397,377.33	51,147.17	0	0	0
RIVERSIDE	2021	LDT1	GAS	Aggregated	80,587.48	3,017,205.80	366,690.86	318.3118731	0	66.95613292
RIVERSIDE	2021	LDT1	DSL	Aggregated	42.62	937.32	139.37	398.0782468	0	0
RIVERSIDE	2021	LDT1	ELEC	Aggregated	312.67	12,704.03	1,592.30	0	0	0
RIVERSIDE	2021	LDT2	GAS	Aggregated	246,596.51	9,631,963.54	1,154,462.90	341.1310079	0	72.43369766
RIVERSIDE	2021	LDT2	DSL	Aggregated	1,288.99	58,422.34	6,390.04	268.6598839	0	0
RIVERSIDE	2021	LDT2	ELEC	Aggregated	1,692.17	54,349.02	8,602.01	0	0	0
RIVERSIDE	2021	LHDT1	GAS	Aggregated	20,885.97	692,854.05	311,169.90	794.1988069	122.4858556	19.05574424
RIVERSIDE	2021	LHDT1	DSL	Aggregated	19,999.78	695,951.65	251,572.05	486.3839212	137.6741944	0
RIVERSIDE	2021	LHDT2	GAS	Aggregated	3,292.65	108,726.45	49,055.53	910.1840975	141.2574218	21.64578338
RIVERSIDE	2021	LHDT2	DSL	Aggregated	7,676.54	267,713.75	96,561.22	528.6231579	221.2560171	0
RIVERSIDE	2021	MCY	GAS	Aggregated	35,659.72	267,522.39	71,319.43	208.2975104	0	60.73264947
RIVERSIDE	2021	MDV	GAS	Aggregated	208,791.37	7,677,992.85	957,457.85	424.2051611	0	90.90684367
RIVERSIDE	2021	MDV	DSL	Aggregated	3,985.67	171,354.65	19,488.50	363.8495244	0	0
RIVERSIDE	2021	MDV	ELEC	Aggregated	787.11	25,973.70	4,035.65	0	0	0
RIVERSIDE	2021	MH	GAS	Aggregated	6,261.09	50,694.81	626.36	1683.695829	0	26.31033794
RIVERSIDE	2021	MH	DSL	Aggregated	2,593.42	21,461.99	259.34	941.7589447	0	0
RIVERSIDE	2021	OBUS	GAS	Aggregated	589.48	27,261.01	11,794.32	1672.968923	382.4351647	26.72078395
RIVERSIDE	2021	OBUS	DSL	Aggregated	347.99	24,855.13	3,314.36	1115.746917	2533.802154	0
RIVERSIDE	2021	SBUS	GAS	Aggregated	475.47	19,228.88	1,901.89	890.8823265	2659.70473	47.6992529
RIVERSIDE	2021	SBUS	DSL	Aggregated	1,131.96	35,858.76	13,062.61	1235.588303	3732.850296	0
RIVERSIDE	2021	UBUS	GAS	Aggregated	163.48	23,017.82	653.94	1393.599069	0	52.67115841
RIVERSIDE	2021	UBUS	DSL	Aggregated	1.11	58.57	4.42	1141.143654	0	0
RIVERSIDE	2021	UBUS	ELEC	Aggregated	5.06	271.53	20.23	0	0	0
RIVERSIDE	2021	UBUS	NG	Aggregated	306.62	41,979.73	1,226.49	1751.725881	0	0
						LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite		**322.3359**	**9.9756**	**58.2718**

EMFAC2017 (v1.0.2) Emission Rates
Region Type: County
Region: RIVERSIDE
Calendar Year: 2021
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN
Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day

Table 14. Operation Mobile Source Emissions Factors - EMFAC2017 Annual N2O

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	N2O_RUNEX (g/mile)	N2O_IDLEX (g/vehicle/day)	N2O_STREX (g/trip)
RIVERSIDE	2021	HHDT	DSL	Aggregated	27,250.49	3,825,933.40	312,944.63	0.211284514	2.547492856	0
RIVERSIDE	2021	MHDT	DSL	Aggregated	15,756.36	963,068.11	151,121.37	0.14639942	0.131596495	0
						HHDT and MHDT Composite		**0.1982**	**2.0617**	**0.0000**
RIVERSIDE	2021	LDA	GAS	Aggregated	750,300.86	29,816,029.44	3,552,291.91	0.004583714	0	0.026531264
RIVERSIDE	2021	LDA	DSL	Aggregated	6,761.58	284,051.95	32,376.68	0.031451379	0	0
RIVERSIDE	2021	LDA	ELEC	Aggregated	10,150.83	397,377.33	51,147.17	0	0	0
RIVERSIDE	2021	LDT1	GAS	Aggregated	80,587.48	3,017,205.80	366,690.86	0.010448697	0	0.031698898
RIVERSIDE	2021	LDT1	DSL	Aggregated	42.62	937.32	139.37	0.062572357	0	0
RIVERSIDE	2021	LDT1	ELEC	Aggregated	312.67	12,704.03	1,592.30	0	0	0
RIVERSIDE	2021	LDT2	GAS	Aggregated	246,596.51	9,631,963.54	1,154,462.90	0.007321622	0	0.034550785
RIVERSIDE	2021	LDT2	DSL	Aggregated	1,288.99	58,422.34	6,390.04	0.042229592	0	0
RIVERSIDE	2021	LDT2	ELEC	Aggregated	1,692.17	54,349.02	8,602.01	0	0	0
RIVERSIDE	2021	LHDT1	GAS	Aggregated	20,885.97	692,854.05	311,169.90	0.014016537	0.003199344	0.043344142
RIVERSIDE	2021	LHDT1	DSL	Aggregated	19,999.78	695,951.65	251,572.05	0.076452779	0.021640466	0
RIVERSIDE	2021	LHDT2	GAS	Aggregated	3,292.65	108,726.45	49,055.53	0.01358551	0.003190519	0.043541308
RIVERSIDE	2021	LHDT2	DSL	Aggregated	7,676.54	267,713.75	96,561.22	0.083092199	0.034778365	0
RIVERSIDE	2021	MCY	GAS	Aggregated	35,659.72	267,522.39	71,319.43	0.065360025	0	0.014918649
RIVERSIDE	2021	MDV	GAS	Aggregated	208,791.37	7,677,992.85	957,457.85	0.009401256	0	0.038775803
RIVERSIDE	2021	MDV	DSL	Aggregated	3,985.67	171,354.65	19,488.50	0.057192078	0	0
RIVERSIDE	2021	MDV	ELEC	Aggregated	787.11	25,973.70	4,035.65	0	0	0
RIVERSIDE	2021	MH	GAS	Aggregated	6,261.09	50,694.81	626.36	0.026739893	0	0.034568137
RIVERSIDE	2021	MH	DSL	Aggregated	2,593.42	21,461.99	259.34	0.148031391	0	0
RIVERSIDE	2021	OBUS	GAS	Aggregated	589.48	27,261.01	11,794.32	0.0232953	0.005507052	0.025647146
RIVERSIDE	2021	OBUS	DSL	Aggregated	347.99	24,855.13	3,314.36	0.175379878	0.398278413	0
RIVERSIDE	2021	SBUS	GAS	Aggregated	475.47	19,228.88	1,901.89	0.020525539	0.086395573	0.052299699
RIVERSIDE	2021	SBUS	DSL	Aggregated	1,131.96	35,858.76	13,062.61	0.194217275	0.586752083	0
RIVERSIDE	2021	UBUS	GAS	Aggregated	163.48	23,017.82	653.94	0.014100645	0	0.057979306
RIVERSIDE	2021	UBUS	DSL	Aggregated	1.11	58.57	4.42	0.179371891	0	0
RIVERSIDE	2021	UBUS	ELEC	Aggregated	5.06	271.53	20.23	0	0	0
RIVERSIDE	2021	UBUS	NG	Aggregated	306.62	41,979.73	1,226.49	0.35710078	0	0
						LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite		**0.0088**	**0.0012**	**0.0287**

EMFAC2017 (v1.0.2) Emission Rates
Region Type: County
Region: RIVERSIDE
Calendar Year: 2021
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN
Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day
OBUS	5.9	min/day

Table 13. Operation Mobile Source Emissions Factors - EMFAC2017 Annual CH4

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	CH4_RUNEX (g/mile)	CH4_IDLEX (g/vehicle/day)	CH4_STREX (g/trip)
RIVERSIDE	2021	HHDT	DSL	Aggregated	27,250.49	3,825,933.40	312,944.63	0.003223056	0.310019536	0
RIVERSIDE	2021	MHDT	DSL	Aggregated	15,756.36	963,068.11	151,121.37	0.005062701	0.005656863	0
						HHDT and MHDT Composite		**0.0036**	**0.2488**	**0.0000**
RIVERSIDE	2021	LDA	GAS	Aggregated	750,300.86	29,816,029.44	3,552,291.91	0.002518106	0	0.052644288
RIVERSIDE	2021	LDA	DSL	Aggregated	6,761.58	284,051.95	32,376.68	0.00064982	0	0
RIVERSIDE	2021	LDA	ELEC	Aggregated	10,150.83	397,377.33	51,147.17	0	0	0
RIVERSIDE	2021	LDT1	GAS	Aggregated	80,587.48	3,017,205.80	366,690.86	0.008046655	0	0.086850879
RIVERSIDE	2021	LDT1	DSL	Aggregated	42.62	937.32	139.37	0.010554935	0	0
RIVERSIDE	2021	LDT1	ELEC	Aggregated	312.67	12,704.03	1,592.30	0	0	0
RIVERSIDE	2021	LDT2	GAS	Aggregated	246,596.51	9,631,963.54	1,154,462.90	0.004292453	0	0.073037818
RIVERSIDE	2021	LDT2	DSL	Aggregated	1,288.99	58,422.34	6,390.04	0.000680186	0	0
RIVERSIDE	2021	LDT2	ELEC	Aggregated	1,692.17	54,349.02	8,602.01	0	0	0
RIVERSIDE	2021	LHDT1	GAS	Aggregated	20,885.97	692,854.05	311,169.90	0.00641186	0.12664908	0.028106684
RIVERSIDE	2021	LHDT1	DSL	Aggregated	19,999.78	695,951.65	251,572.05	0.004254429	0.005098128	0
RIVERSIDE	2021	LHDT2	GAS	Aggregated	3,292.65	108,726.45	49,055.53	0.004394994	0.12838992	0.026798655
RIVERSIDE	2021	LHDT2	DSL	Aggregated	7,676.54	267,713.75	96,561.22	0.003638294	0.005098128	0
RIVERSIDE	2021	MCY	GAS	Aggregated	35,659.72	267,522.39	71,319.43	0.318958566	0	0.241960085
RIVERSIDE	2021	MDV	GAS	Aggregated	208,791.37	7,677,992.85	957,457.85	0.005894739	0	0.092336904
RIVERSIDE	2021	MDV	DSL	Aggregated	3,985.67	171,354.65	19,488.50	0.000513485	0	0
RIVERSIDE	2021	MDV	ELEC	Aggregated	787.11	25,973.70	4,035.65	0	0	0
RIVERSIDE	2021	MH	GAS	Aggregated	6,261.09	50,694.81	626.36	0.01321138	0	0.03335229
RIVERSIDE	2021	MH	DSL	Aggregated	2,593.42	21,461.99	259.34	0.003336572	0	0
RIVERSIDE	2021	OBUS	GAS	Aggregated	589.48	27,261.01	11,794.32	0.011115275	0.198913901	0.030894637
RIVERSIDE	2021	OBUS	DSL	Aggregated	347.99	24,855.13	3,314.36	0.005645867	0.050504904	0
RIVERSIDE	2021	SBUS	GAS	Aggregated	475.47	19,228.88	1,901.89	0.008055131	2.409363322	0.054816562
RIVERSIDE	2021	SBUS	DSL	Aggregated	1,131.96	35,858.76	13,062.61	0.005836533	0.012995385	0
RIVERSIDE	2021	UBUS	GAS	Aggregated	163.48	23,017.82	653.94	0.003861045	0	0.055192551
RIVERSIDE	2021	UBUS	DSL	Aggregated	1.11	58.57	4.42	0.037433126	0	0
RIVERSIDE	2021	UBUS	ELEC	Aggregated	5.06	271.53	20.23	0	0	0
RIVERSIDE	2021	UBUS	NG	Aggregated	306.62	41,979.73	1,226.49	5.210992782	0	0
						LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite		**0.0094**	**0.0032**	**0.0602**

EMFAC2017 (v1.0.2) Emission Rates
Region Type: County
Region: RIVERSIDE
Calendar Year: 2021
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN
Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day

Table 14. Paved Road Fugitive Emissions - Operation Mobile Sources

Equation:

$E = k \times (sL/2)^{0.91} \times (W)1.02$ [maximum day]

Where:			Units
k	particle size multiplier (PM_{10})	0.00220	lb/VMT
k	particle size multiplier ($PM_{2.5}$)	0.00054	lb/VMT
sL	silt loading (2)	0.1	g/m^2
W	average weight (tons) of the vehicle traveling the road	2.4	tons

Notes/References:
k = Emission factors from CalEEMod2016.3.1 per AP-42, Section 13.2.1 (Paved Roads).
sL = Silt loading from CalEEMod2016.3.2
For daily emissions it is assumed to have no precipitation.

Truck Weight Assumptions

EMFAC Definition	EMFAC Category	GVWR (pounds)	GVWR (tons)	
Heavy Heavy-Duty Truck	HHDT	>33,000	17	*Assumed 33,000 pounds*
Medium Heavy-Duty Truck	MHDT	14,001-33,000	8	*Assumed average of 14,001 & 33,000 pounds*
Composite Heavy & Medium Heavy-Duty Truck	HHDT & MHDT	14,001-33,000+	13	*Assumed average of HHDT & MHDT pounds*

Source: EMFAC 2014
GVWR = Gross Vehicle Weight Rating
1 pound = 0.0005 US tons

Employee Vehicles Evaluated:

Employee Type	Average Weight (tons)
Passenger Vehicles	2.4

Reference:
Source: CalEEMod2016.3.2 (average vehicle weight = 2.4 tons)
Per AP-42, Section 13.2.1 (Paved Roads): The above equation calls for the average weight of all vehicles traveling the road. For example, if 99 percent of traffic on the road are 2 ton cars/trucks while the remaining 1 percent consists of 20 ton trucks, then the mean weight "W" is 2.2 tons. More specifically, the above equation is not intended to be used to calculate a separate emission factor for each vehicle weight class. Instead, only one emission factor should be calculated to represent the "fleet" average weight of all vehicles traveling the road.

Emission Factors	**PM10 Paved Road (lb/VMT)**	**PM2.5 Paved Road (lb/VMT)**	**PM10 Paved Road (g/VMT)**	**PM2.5 Paved Road (g/VMT)**
HHDT	0.0049	0.0012	2.2087	0.5421
MHDT	0.0023	0.0006	1.0239	0.2513
HHDT & MHDT	0.0037	0.0009	1.6800	0.4124
Passenger Vehicles	0.0007	0.0002	0.2998	0.0736
Average	0.0022	0.0005	0.9899	0.2430

EMFAC2017 (v1.0.2) Emission Rates
Region Type: County
Region: RIVERSIDE
Calendar Year: 2021
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK

Region	Calendar Y	Vehicle Cat	Model Year	Speed	Fuel	VMT	ROG_RUNE	TOG_RUNE
RIVERSIDE	2021	HHDT	Aggregated	15	DSL	6117.946	0.354765	0.403873
RIVERSIDE	2021	MHDT	Aggregated	15	DSL	1962.902	0.558851	0.636209
					HHDT and MHDT Composite		**0.404339**	**0.460309**
RIVERSIDE	2021	LDA	Aggregated	15	GAS	91128.87	0.029149	0.042514
RIVERSIDE	2021	LDA	Aggregated	15	DSL	866.093	0.078428	0.089285
RIVERSIDE	2021	LDT1	Aggregated	15	GAS	9476.79	0.105023	0.153156
RIVERSIDE	2021	LDT1	Aggregated	15	DSL	3.022153	0.517578	0.589229
RIVERSIDE	2021	LDT2	Aggregated	15	GAS	30191.86	0.052573	0.076674
RIVERSIDE	2021	LDT2	Aggregated	15	DSL	185.1373	0.097803	0.111342
RIVERSIDE	2021	LHDT1	Aggregated	15	GAS	1575.873	0.080627	0.11765
RIVERSIDE	2021	LHDT1	Aggregated	15	DSL	1317.893	0.324148	0.369021
RIVERSIDE	2021	LHDT2	Aggregated	15	GAS	254.5798	0.055888	0.081551
RIVERSIDE	2021	LHDT2	Aggregated	15	DSL	511.6154	0.312868	0.35618
RIVERSIDE	2021	MCY	Aggregated	15	GAS	859.4828	5.687786	7.023187
RIVERSIDE	2021	MDV	Aggregated	15	GAS	24009.85	0.074685	0.10677
RIVERSIDE	2021	MDV	Aggregated	15	DSL	528.2126	0.07405	0.084302
RIVERSIDE	2021	MH	Aggregated	15	GAS	111.9295	0.156157	0.227863
RIVERSIDE	2021	MH	Aggregated	15	DSL	43.21963	0.408399	0.464936
RIVERSIDE	2021	OBUS	Aggregated	15	GAS	60.35342	0.171818	0.250717
RIVERSIDE	2021	OBUS	Aggregated	15	DSL	50.49645	0.655129	0.745814
RIVERSIDE	2021	SBUS	Aggregated	15	GAS	1334.714	0.079007	0.115287
RIVERSIDE	2021	SBUS	Aggregated	15	DSL	2489.027	0.309359	0.352182
RIVERSIDE	2021	UBUS	Aggregated	15	GAS	708.4647	0.030354	0.044293
RIVERSIDE	2021	UBUS	Aggregated	15	DSL	4.45106	0.000669	0.04779
RIVERSIDE	2021	UBUS	Aggregated	15	NG	2868.768	0.095062	6.716966
, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite							**0.0832**	**0.2236**
RIVERSIDE	2021	HHDT	Aggregated	40	DSL	152385.4	0.081779	0.093099
RIVERSIDE	2021	MHDT	Aggregated	40	DSL	52970.02	0.118118	0.134468
					HHDT and MHDT Composite		**0.091152**	**0.10377**
RIVERSIDE	2021	LDA	Aggregated	40	GAS	3236940	0.00859	0.012526
RIVERSIDE	2021	LDA	Aggregated	40	DSL	30893.43	0.013092	0.014904
RIVERSIDE	2021	LDT1	Aggregated	40	GAS	331059.6	0.032574	0.047494
RIVERSIDE	2021	LDT1	Aggregated	40	DSL	104.5262	0.202058	0.23003
RIVERSIDE	2021	LDT2	Aggregated	40	GAS	1054727	0.015747	0.022963
RIVERSIDE	2021	LDT2	Aggregated	40	DSL	6450.797	0.013729	0.015629
RIVERSIDE	2021	LHDT1	Aggregated	40	GAS	40739.24	0.027466	0.040078
RIVERSIDE	2021	LHDT1	Aggregated	40	DSL	34141.32	0.084118	0.095762
RIVERSIDE	2021	LHDT2	Aggregated	40	GAS	6463.931	0.017559	0.025622

RIVERSIDE	2021	LHDT2	Aggregated	40	DSL	13242.88	0.073639	0.083834
RIVERSIDE	2021	MCY	Aggregated	40	GAS	29585.31	1.905367	2.344276
RIVERSIDE	2021	MDV	Aggregated	40	GAS	840989.6	0.023181	0.032894
RIVERSIDE	2021	MDV	Aggregated	40	DSL	18672.93	0.010403	0.011844
RIVERSIDE	2021	MH	Aggregated	40	GAS	3007.724	0.051425	0.075039
RIVERSIDE	2021	MH	Aggregated	40	DSL	1166.787	0.070822	0.080627
RIVERSIDE	2021	OBUS	Aggregated	40	GAS	1517.825	0.052485	0.076586
RIVERSIDE	2021	OBUS	Aggregated	40	DSL	1287.826	0.126452	0.143956
RIVERSIDE	2021	SBUS	Aggregated	40	GAS	2377.217	0.022638	0.033033
RIVERSIDE	2021	SBUS	Aggregated	40	DSL	4433.126	0.060428	0.068793
RIVERSIDE	2021	UBUS	Aggregated	40	GAS	956.8002	0.004755	0.006938
RIVERSIDE	2021	UBUS	Aggregated	40	DSL	0.543927	0.000325	0.023243
RIVERSIDE	2021	UBUS	Aggregated	40	NG	568.5687	0.050632	2.690813
A, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite							**0.0243**	**0.0330**
RIVERSIDE	2021	HHDT	Aggregated	55	DSL	376151.9	0.057161	0.065073
RIVERSIDE	2021	MHDT	Aggregated	55	DSL	131514.3	0.092928	0.105792
HHDT and MHDT Composite							**0.066427**	**0.075622**
RIVERSIDE	2021	MH	Aggregated	55	GAS	7528.319	0.048597	0.070913
RIVERSIDE	2021	MH	Aggregated	55	DSL	2901.465	0.057431	0.065381
RIVERSIDE	2021	OBUS	Aggregated	55	GAS	3769.636	0.047911	0.069912
RIVERSIDE	2021	OBUS	Aggregated	55	DSL	3194.626	0.104996	0.11953
RIVERSIDE	2021	SBUS	Aggregated	55	GAS	850.2137	0.020188	0.029459
RIVERSIDE	2021	SBUS	Aggregated	55	DSL	1585.512	0.047543	0.054124
RIVERSIDE	2021	UBUS	Aggregated	55	GAS	2229.27	0.004279	0.006245
RIVERSIDE	2021	UBUS	Aggregated	55	DSL	1.267307	0.000261	0.018639
RIVERSIDE	2021	UBUS	Aggregated	55	NG	1244.69	0.040678	2.340476
MH, OBUS, SBUS, and UBUS Composite							**0.051544**	**0.189098**
RIVERSIDE	2021	LDA	Aggregated	65	GAS	3111329	0.009094	0.01326
RIVERSIDE	2021	LDA	Aggregated	65	DSL	29791.73	0.011335	0.012904
RIVERSIDE	2021	LDT1	Aggregated	65	GAS	306084.9	0.032114	0.046818
RIVERSIDE	2021	LDT1	Aggregated	65	DSL	91.32748	0.242886	0.27651
RIVERSIDE	2021	LDT2	Aggregated	65	GAS	978026.4	0.015948	0.023254
RIVERSIDE	2021	LDT2	Aggregated	65	DSL	5932.307	0.010697	0.012178
RIVERSIDE	2021	LHDT1	Aggregated	65	GAS	112919.9	0.03207	0.046797
RIVERSIDE	2021	LHDT1	Aggregated	65	DSL	179296.3	0.094352	0.107413
RIVERSIDE	2021	LHDT2	Aggregated	65	GAS	17416.04	0.019837	0.028947
RIVERSIDE	2021	LHDT2	Aggregated	65	DSL	69274.71	0.07896	0.089891
RIVERSIDE	2021	MCY	Aggregated	65	GAS	26311.07	2.278248	2.795843
RIVERSIDE	2021	MDV	Aggregated	65	GAS	780586.7	0.024688	0.034814
RIVERSIDE	2021	MDV	Aggregated	65	DSL	17623.38	0.007998	0.009105
LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, and MDV Composite							**0.096244**	**0.122371**

and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN

CO_RUNEX	NOx_RUNE	SOx_RUNEX	CO2_RUNEX	CH4_RUNE	PM10_RUN	PM2_5_RU	N2O_RUNEX
1.299278	8.95428	0.0235117	2488.6678	0.016478	0.050996	0.04879	0.391184
1.216541	5.64179	0.0153113	1620.6665	0.025957	0.122264	0.116975	0.254746
1.27918	**8.14965**	**0.02152**	**2277.8234**	**0.018781**	**0.068308**	**0.065353**	**0.358042**
1.102773	0.056165	0.0043402	438.5889	0.00768	0.004343	0.003994	0.006493
1.265108	0.115069	0.0033934	358.95792	0.003643	0.01626	0.015556	0.056423
2.723957	0.204875	0.0051328	518.68428	0.023973	0.006775	0.00623	0.014925
2.30103	0.963934	0.0067818	717.37369	0.024041	0.386057	0.369357	0.112761
1.644382	0.127936	0.0054938	555.16844	0.013054	0.00454	0.004174	0.010467
0.801779	0.097778	0.0045917	485.70948	0.004543	0.012169	0.011642	0.076347
1.264032	0.297867	0.0125908	1272.3383	0.017601	0.003334	0.003065	0.018831
1.363446	2.224191	0.0064452	681.77034	0.015056	0.044409	0.042488	0.107165
0.847833	0.285397	0.0144465	1459.8609	0.013119	0.002906	0.002672	0.019175
1.335098	1.868752	0.0073402	776.44703	0.014532	0.041125	0.039346	0.122047
30.46092	1.283257	0.0034005	343.63386	0.846304	0.00474	0.004431	0.074707
1.997634	0.168394	0.0068197	689.15482	0.017454	0.004541	0.004177	0.01324
1.315596	0.101553	0.0060222	637.02248	0.00344	0.010659	0.010198	0.100131
2.75631	0.569285	0.0267512	2703.2819	0.037458	0.003685	0.003388	0.036054
1.168444	8.685866	0.0147329	1558.4415	0.018969	0.198372	0.18979	0.244965
2.482051	0.665043	0.026465	2674.3597	0.036812	0.002268	0.002085	0.034064
1.53189	6.626309	0.0180531	1910.8831	0.030429	0.148454	0.142032	0.300364
1.127311	0.401377	0.0127076	1284.1368	0.016197	0.00149	0.00137	0.026153
0.662078	10.07733	0.0162329	1718.2166	0.014369	0.076993	0.073663	0.27008
0.373913	0.270287	0.025444	2571.1856	0.009994	0.002401	0.002208	0.026431
0.075759	0.64555	0.0125186	1324.2142	0.046826	0.003608	0.003452	0.208148
48.37905	0.515691	0	2079.0259	6.580448	0.004077	0.0039	0.423823
2.3699	**0.2893**	**0.0053**	**577.2256**	**0.1274**	**0.0062**	**0.0058**	**0.0223**
0.362978	3.119809	0.0122671	1298.4503	0.003798	0.03525	0.033725	0.204098
0.441063	2.57359	0.0085861	908.82356	0.005486	0.067874	0.064937	0.142854
0.383119	**2.978916**	**0.011318**	**1197.9488**	**0.004234**	**0.043665**	**0.041776**	**0.188301**
0.721151	0.038405	0.0024528	247.8603	0.00225	0.001257	0.001156	0.004437
0.17494	0.078444	0.001711	180.99256	0.000608	0.007315	0.006999	0.02845
1.713472	0.13594	0.0028961	292.66014	0.007379	0.002034	0.00187	0.009947
1.098963	1.189474	0.0034071	360.40766	0.009385	0.155049	0.148341	0.056651
1.055776	0.0856	0.0031	313.26474	0.003876	0.001322	0.001216	0.007044
0.104944	0.048419	0.0023015	243.45424	0.000638	0.00583	0.005577	0.038268
0.748143	0.222739	0.007124	719.89853	0.00583	0.000992	0.000912	0.013598
0.445783	2.625827	0.0043045	455.32842	0.003907	0.019413	0.018573	0.071571
0.522509	0.201203	0.0081693	825.53315	0.004038	0.000851	0.000782	0.01331

0.388325	2.139454	0.0048488	512.90655	0.00342	0.018419	0.017622	0.080622
17.05364	1.082923	0.0018726	189.23148	0.281905	0.001557	0.001457	0.062822
1.272419	0.116149	0.0038532	389.37325	0.005286	0.001334	0.001228	0.009019
0.168732	0.059572	0.0031048	328.42808	0.000483	0.00518	0.004956	0.051624
1.63218	0.425298	0.0151416	1530.106	0.011982	0.001109	0.00102	0.025945
0.356905	4.541918	0.0091898	972.0963	0.00329	0.102565	0.098128	0.1528
1.646238	0.476814	0.0149792	1513.6932	0.011106	0.000664	0.000611	0.023928
0.506494	3.040469	0.0101377	1073.0586	0.005873	0.06172	0.05905	0.16867
0.742926	0.275601	0.0071895	726.52128	0.004641	0.000428	0.000394	0.017956
0.215353	6.118131	0.0097467	1031.6744	0.002807	0.031683	0.030313	0.162165
0.130169	0.074171	0.0085365	862.63505	0.001681	0.000724	0.000666	0.008617
0.028624	0.134628	0.0076818	812.57551	0.022775	0.005031	0.004814	0.127726
23.11583	0.25473	0	1143.2924	2.62249	0.005893	0.005638	0.233068
1.0033	**0.0991**	**0.0029**	**291.5876**	**0.0051**	**0.0016**	**0.0015**	**0.0075**
0.252131	2.505425	0.0114501	1211.9738	0.002655	0.052002	0.049752	0.190505
0.392824	2.296921	0.0081218	859.67935	0.004316	0.092052	0.08807	0.13513
0.288578	**2.45141**	**0.010588**	**1120.7096**	**0.003085**	**0.062377**	**0.059679**	**0.17616**
1.624829	0.422652	0.016282	1645.3395	0.01121	0.001016	0.000934	0.025456
0.296787	4.208021	0.0085507	904.48815	0.002668	0.130889	0.125227	0.142173
1.39265	0.46314	0.0161025	1627.2047	0.010106	0.000601	0.000553	0.023137
0.389737	2.73354	0.0095663	1012.5765	0.004877	0.08027	0.076798	0.159163
0.593699	0.269825	0.0077287	781.00974	0.004139	0.000385	0.000354	0.017574
0.162682	5.936648	0.0091007	963.2938	0.002208	0.03824	0.036586	0.151416
0.104966	0.071357	0.0091802	927.68046	0.001513	0.000651	0.000599	0.00829
0.021245	0.08621	0.0073235	774.67582	0.018263	0.009308	0.008905	0.121768
21.99851	0.212125	0	1064.1389	2.284701	0.0047	0.004497	0.216932
2.058196	**1.541945**	**0.01202**	**1285.7605**	**0.128726**	**0.030654**	**0.029309**	**0.074812**
0.502029	0.040896	0.0027792	280.84526	0.002392	0.001371	0.001261	0.004676
0.150005	0.083862	0.0021149	223.71731	0.000526	0.007522	0.007197	0.035165
1.249693	0.155529	0.0032696	330.40565	0.007297	0.002141	0.001969	0.011077
1.938064	1.418251	0.0042003	444.31053	0.011282	0.188453	0.180301	0.069839
0.739766	0.093066	0.0035115	354.84808	0.00395	0.00143	0.001315	0.007505
0.084276	0.047995	0.0028193	298.21987	0.000497	0.005909	0.005653	0.046876
0.88339	0.243375	0.0082173	830.38572	0.006733	0.00111	0.001021	0.014634
0.741363	3.202053	0.0047087	498.08677	0.004382	0.022018	0.021066	0.078292
0.506703	0.212753	0.0094129	951.20359	0.004518	0.000943	0.000867	0.013981
0.613871	2.577165	0.0050352	532.6177	0.003668	0.01994	0.019078	0.08372
24.48391	1.218487	0.0022366	226.01805	0.335384	0.001808	0.001693	0.070434
0.991094	0.128379	0.0043819	442.80755	0.00556	0.001454	0.001337	0.009745
0.129254	0.062305	0.0038612	408.43322	0.000371	0.004947	0.004733	0.0642
1.722345	**0.161753**	**0.004302**	**435.15492**	**0.015974**	**0.00154**	**0.001421**	**0.012846**

$$RESTL_{CalEEMod} = \sum_{fueltype}(RESTL_EmissionRate_i \times Population_i) / \sum_{fueltype} Trip_i$$

$$DIURN_{CalEEMod} = \sum_{fueltype}(DIURN_EmissionRate_i \times Population_i) / \sum_{fueltype} Trip_i$$

RESTL	Resting Loss Evaporative	grams/vehicle/day	grams/trip
DIURN	Diurnal Loss Evaporative	grams/vehicle/day	grams/trip

2021 Operation Mobile Source Assumptions Summary

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Vineyard III Delivery Trucks	HHDT and MHDT	7.9	21	166	1,092	8,627
Vineyard III Employees	LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite	18.5	20	370	7,300	135,050
Vineyard III Customers	LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite	10.1	4,392	44,359	1,603,080	16,191,108

Notes:

*Vineyard III delivery truck, employees/customers trip distance assumed CalEEMod default.

*Vineyard III delivery trucks assumed 21 trucks per week, but assumed 21 trucks per day as worst-case. Data provided by applicant.

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Vineyard III Delivery Trucks	HHDT and MHDT	7.9	21	166	1,092	8,627
Vineyard III Employees	LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite	18.5	20	370	7,300	135,050
Vineyard III Customers	LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite	10.1	4392	44,359	1,603,080	16,191,108

Project Vehicle	EMFAC Class	Max Daily Trips (trips/day)	Annual Trips (trips/year)
Vineyard III Delivery Trucks	HHDT and MHDT	21	1,092
Vineyard III Employees	LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite	20	7,300
Vineyard III Customers	LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite	4392	1,603,080

Project Vehicle	EMFAC Class	Idling Minutes per Day (min/day)	Idling Minutes per Year (min/year)
Vineyard III Delivery Trucks	HHDT and MHDT	315	16,380

2021 Operation Mobile Source Emissions Summary - Summer Daily Emissions

Emissions - Daily (Pounds/Day)

	ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	CO2e
	Running Exhaust, Tire Wear, and Break Wear									
Vineyard III Delivery Trucks	0.03	1.02	0.12	0.00	0.02	0.02	461.26	0.00	0.07	482.90
Vineyard III Employees	0.02	0.10	0.95	0.00	0.00	0.00	281.57	0.01	0.01	283.82
Vineyard III Customers	2.86	12.23	114.07	0.33	0.19	0.18	33,757.89	0.96	0.82	34,027.51
Subtotal	*2.91*	*13.35*	*115.15*	*0.34*	*0.22*	*0.20*	*34,500.73*	*0.97*	*0.90*	*34,794.24*

	PM10	PM2.5
	Paved Road - PM only	
Vineyard III Delivery Trucks	0.61	0.15
Vineyard III Employees	0.24	0.06
Vineyard III Customers	29.32	7.20
Subtotal	*30.18*	*7.41*

	ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	CO2e
	Starting Exhaust, Hot Soak, Running Loss Evaporative, Resting Loss Evap, Diurnal Loss Evap									
Vineyard III Delivery Trucks	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vineyard III Employees	0.01	0.01	0.09	0.00	0.00	0.00	2.55	0.00	0.00	2.97
Vineyard III Customers	2.48	2.38	20.11	0.01	0.02	0.02	559.04	0.51	0.27	652.99
Subtotal	*2.49*	*2.48*	*20.20*	*0.01*	*0.02*	*0.02*	*561.59*	*0.52*	*0.27*	*655.97*

	ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	CO2e
	Idling									
Vineyard III Delivery Trucks	0.06	1.51	0.79	0.00	0.00	0.00	203.44	0.00	0.03	213.03
Subtotal	*0.06*	*1.51*	*0.79*	*0.00*	*0.00*	*0.00*	*203.44*	*0.00*	*0.03*	*213.03*
TOTAL	**5.46**	**17.35**	**136.14**	**0.35**	**30.42**	**7.63**	**35,265.75**	**1.49**	**1.21**	**35,663.23**

2021 Operation Mobile Source Assumptions Summary

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Vineyard III Delivery Trucks	HHDT and MHDT	7.9	21	166	1,092	8,627
Vineyard III Employees	LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite	18.5	20	370	7,300	135,050
Vineyard III Customers	LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite	10.1	4,392	44,359	1,603,080	16,191,108

Notes:

*Vineyard III delivery truck, employees/customers trip distance assumed CalEEMod default.

*Vineyard III delivery trucks assumed 21 trucks per week, but assumed 21 trucks per day as worst-case. Data provided by applicant.

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Vineyard III Delivery Trucks	HHDT and MHDT	7.9	21	166	1,092	8,627
Vineyard III Employees	LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite	18.5	20	370	7,300	135,050
Vineyard III Customers	LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite	10.1	4392	44,359	1,603,080	16,191,108

Project Vehicle	EMFAC Class	Max Daily Trips (trips/day)	Annual Trips (trips/year)
Vineyard III Delivery Trucks	HHDT and MHDT	21	1,092
Vineyard III Employees	LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite	20	7,300
Vineyard III Customers	LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite	4392	1,603,080

Project Vehicle	EMFAC Class	Idling Minutes per Day (min/day)	Idling Minutes per Year (min/year)
Vineyard III Delivery Trucks	HHDT and MHDT	315	16,380

2021 Operation Mobile Source Emissions Factors - EMFAC2017 Summer

Emission Factors: Summary

Project Vehicle	Vehicle Classes	Fuel	Speed	ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O
				Running Exhaust, Tire Wear, and Break Wear (grams/mile)								
Vineyard III Delivery Trucks	HHDT and MHDT	Diesel	Aggregate	0.077	2.788	0.338	0.012	0.062	0.059	1,261.156	0.004	0.198
Vineyard III Employees/Customers	LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite	Gas, Electric, & Diesel (Aggregate)	Aggregate	0.029	0.125	1.166	0.003	0.002	0.002	345.189	0.010	0.008

Project Vehicle	Vehicle Classes	PM10	PM2.5
		Paved Road - PM Only (grams/mile)	
Vineyard III Delivery Trucks	HHDT and MHDT	1.680	0.412
Vineyard III Employees/Customers	LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite	0.300	0.074

Project Vehicle	Vehicle Classes	Fuel	ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O
			Starting Exhaust, Hot Soak, Running Loss Evaporative, Resting Loss Evap, Diurnal Loss Evap								
Vineyard III Delivery Trucks	HHDT and MHDT	Diesel	0.000	1.868	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Vineyard III Employees/Customers	LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite	Gas, Electric, & Diesel (Aggregate)	0.256	0.246	2.077	0.001	0.002	0.002	57.736	0.053	0.028

Project Vehicle	Vehicle Classes	Fuel	ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O
			Idling (grams/Idle-min/vehicle)								
Vineyard III Delivery Trucks	HHDT and MHDT	Diesel	0.084	2.180	1.140	0.003	0.000	0.005	292.942	0.004	0.046
Vineyard III Employees/Customers	LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite	Gas, Electric, & Diesel (Aggregate)	0.005889	0.02809	0.048534	0.000031	0.000306	0.000292	3.243913	0.00134	0.000343

Table 5. Operation Mobile Source Emissions Factors - EMFAC2017 Summer ROG

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	ROG_RUNEX (g/mile)	ROG_IDLEX (g/vehicle/day)	ROG_STREX (g/trip)	ROG_HOTSOAK (g/trip)	ROG_RUNLOSS (g/trip)	ROG_RESTLOSS (g/vehicle/day)	ROG_DIURN (g/vehicle/day)	ROG_RESTLOSS - Calculated (g/trip)	ROG_DIURN - Calculated (g/trip)	STEX HOTSOAK RUNLOSS ROG RESTLOSS DIURN_Combined - Calculated (g/trip)
RIVERSIDE	2021	HHDT	DSL	Aggregated	27,250.49	3,825,933.40	312,944.63	0.069391519	6.973048575	0	0	0	0	0			
RIVERSIDE	2021	MHDT	DSL	Aggregated	15,756.36	963,068.11	151,121.37	0.10899857	0.118955864	0	0	0	0	0			
						HHDT and MHDT Composite		**0.0774**	**5.5947**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**-**	**-**	**0.0000**
RIVERSIDE	2021	LDA	GAS	Aggregated	750,300.86	29,816,029.44	3,552,291.91	0.010873639	0	0.203369716	0.123996113	0.217243783	0.492825344	0.665535986			
RIVERSIDE	2021	LDA	DSL	Aggregated	6,761.58	284,051.95	32,376.68	0.013990238	0	0	0	0	0	0			
RIVERSIDE	2021	LDA	ELEC	Aggregated	10,150.83	397,377.33	51,147.17	0	0	0	0.004888026	0	0.037949689	0.069270647			
RIVERSIDE	2021	LDT1	GAS	Aggregated	80,587.48	3,017,205.80	366,690.86	0.040096321	0	0.38607525	0.342013295	0.879353825	1.345424561	2.026994582			
RIVERSIDE	2021	LDT1	DSL	Aggregated	42.62	937.32	139.37	0.227241534	0	0	0	0	0	0			
RIVERSIDE	2021	LDT1	ELEC	Aggregated	312.67	12,704.03	1,592.30	0	0	0	0.004888026	0	0.038090002	0.069451924			
RIVERSIDE	2021	LDT2	GAS	Aggregated	246,596.51	9,631,963.54	1,154,462.90	0.019740989	0	0.295656302	0.169325908	0.449697819	0.788520583	1.026640299			
RIVERSIDE	2021	LDT2	DSL	Aggregated	1,288.99	58,422.34	6,390.04	0.014644006	0	0	0	0	0	0			
RIVERSIDE	2021	LDT2	ELEC	Aggregated	1,692.17	54,349.02	8,602.01	0	0	0	0.004888026	0	0.038685619	0.070239009			
RIVERSIDE	2021	LHDT1	GAS	Aggregated	20,885.97	692,854.05	311,169.90	0.031287125	0.45664908	0.134095303	0.170843985	0.909548489	0.080766635	0.160405932			
RIVERSIDE	2021	LHDT1	DSL	Aggregated	19,999.78	695,951.65	251,572.05	0.091595351	0.109759705	0	0	0	0	0			
RIVERSIDE	2021	LHDT2	GAS	Aggregated	3,292.65	108,726.45	49,055.53	0.019659511	0.458215314	0.126572726	0.151708978	0.747896493	0.071336496	0.14078255			
RIVERSIDE	2021	LHDT2	DSL	Aggregated	7,676.54	267,713.75	96,561.22	0.078330325	0.109759705	0	0	0	0	0			
RIVERSIDE	2021	MCY	GAS	Aggregated	35,659.72	267,522.39	71,319.43	2.133549493	0	1.628929592	1.234266381	1.862850794	4.090250425	6.554859086			
RIVERSIDE	2021	MDV	GAS	Aggregated	208,791.37	7,677,992.85	957,457.85	0.029036843	0	0.398475117	0.201755855	0.512699836	0.967022245	1.206278926			
RIVERSIDE	2021	MDV	DSL	Aggregated	3,985.67	171,354.65	19,488.50	0.011055038	0	0	0	0	0	0			
RIVERSIDE	2021	MDV	ELEC	Aggregated	787.11	25,973.70	4,035.65	0	0	0	0.004888026	0	0.03858807	0.070104047			
RIVERSIDE	2021	MH	GAS	Aggregated	6,261.09	50,694.81	626.36	0.059046893	0	0.130256232	0.11381459	2.086195037	0.123726953	0.330536321			
RIVERSIDE	2021	MH	DSL	Aggregated	2,593.42	21,461.99	259.34	0.071834435	0	0	0	0	0	0			
RIVERSIDE	2021	OBUS	GAS	Aggregated	589.48	27,261.01	11,794.32	0.053395579	0.745348379	0.152830947	0.033599883	0.332191281	0.05465176	0.121305343			
RIVERSIDE	2021	OBUS	DSL	Aggregated	347.99	24,855.13	3,314.36	0.121553962	1.087997213	0	0	0	0	0			
RIVERSIDE	2021	SBUS	GAS	Aggregated	475.47	19,228.88	1,901.89	0.040344133	10.6396621	0.263968643	0.071943775	0.385852212	0.03667582	0.07435097			
RIVERSIDE	2021	SBUS	DSL	Aggregated	1,131.96	35,858.76	13,062.61	0.125658958	0.274041103	0	0	0	0	0			
RIVERSIDE	2021	UBUS	GAS	Aggregated	163.48	23,017.82	653.94	0.011773638	0	0.195089418	0.034099509	0.131929437	0.016954817	0.024982851			
RIVERSIDE	2021	UBUS	DSL	Aggregated	1.11	58.57	4.42	0.000534846	0	0	0	0	0	0			
RIVERSIDE	2021	UBUS	ELEC	Aggregated	5.06	271.53	20.23	0	0	0	0	0	0	0			
RIVERSIDE	2021	UBUS	NG	Aggregated	306.62	41,979.73	1,226.49	0.077260262	0	0	0	0	0	0			
						LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite		**0.0292**	**0.0137**	**0.2564**	**0.1570**	**0.3506**	**0.6543**	**0.8806**	**0.146923**	**0.202142**	**1.1131**

EMFAC2017 (v1.0.2) Emission Rates
Region Type: County
Region: RIVERSIDE
Calendar Year: 2021
Season: Summer
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN
Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day
OBUS	5.9	min/day

Table 6. Operation Mobile Source Emissions Factors - EMFAC2017 Summer TOG

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	TOG_RUNEX (g/mile)	TOG_IDLEX (g/vehicle/day)	TOG_STREX (g/trip)	TOG_HOTSOAK (g/trip)	TOG_RUNLOSS (g/trip)	TOG_RESTLOSS (g/vehicle/day)	TOG_DIURN (g/vehicle/day)	TOG_RESTLOSS - Calculated (g/trip)	TOG_DIURN - Calculated (g/trip)	STEX HOTSOAK RUNLOSS TOG RESTLOSS DIURN_Combined - Calculated (g/trip)
RIVERSIDE	2021	HHDT	DSL	Aggregated	27,250.49	3,825,933.40	312,944.63	0.078996962	7.938285005	0	0	0	0	0			
RIVERSIDE	2021	MHDT	DSL	Aggregated	15,756.36	963,068.11	151,121.37	0.124086575	0.135422196	0	0	0	0	0			
						HHDT and MHDT Composite		**0.0881**	**6.3691**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	-	-	**0.0000**
RIVERSIDE	2021	LDA	GAS	Aggregated	750,300.86	29,816,029.44	3,552,291.91	0.01585519	0	0.222662921	0.123996113	0.217243783	0.492825344	0.665535986			
RIVERSIDE	2021	LDA	DSL	Aggregated	6,761.58	284,051.95	32,376.68	0.015926956	0	0	0	0	0	0			
RIVERSIDE	2021	LDA	ELEC	Aggregated	10,150.83	397,377.33	51,147.17	0	0	0	0.004888026	0	0.037949689	0.069270647			
RIVERSIDE	2021	LDT1	GAS	Aggregated	80,587.48	3,017,205.80	366,690.86	0.058454516	0	0.422701047	0.342013295	0.879353825	1.345424561	2.026994582			
RIVERSIDE	2021	LDT1	DSL	Aggregated	42.62	937.32	139.37	0.258699378	0	0	0	0	0	0			
RIVERSIDE	2021	LDT1	ELEC	Aggregated	312.67	12,704.03	1,592.30	0	0	0	0.004888026	0	0.038090002	0.069451924			
RIVERSIDE	2021	LDT2	GAS	Aggregated	246,596.51	9,631,963.54	1,154,462.90	0.028783123	0	0.323705264	0.169325908	0.449697819	0.788520583	1.026640299			
RIVERSIDE	2021	LDT2	DSL	Aggregated	1,288.99	58,422.34	6,390.04	0.016671227	0	0	0	0	0	0			
RIVERSIDE	2021	LDT2	ELEC	Aggregated	1,692.17	54,349.02	8,602.01	0	0	0	0.004888026	0	0.038685619	0.070239009			
RIVERSIDE	2021	LHDT1	GAS	Aggregated	20,885.97	692,854.05	311,169.90	0.045654099	0.666341266	0.146817478	0.170843985	0.909548489	0.080766635	0.160405932			
RIVERSIDE	2021	LHDT1	DSL	Aggregated	19,999.78	695,951.65	251,572.05	0.104275217	0.124954127	0	0	0	0	0			
RIVERSIDE	2021	LHDT2	GAS	Aggregated	3,292.65	108,726.45	49,055.53	0.028687113	0.66862671	0.138581203	0.151708978	0.747896493	0.071336496	0.14078255			
RIVERSIDE	2021	LHDT2	DSL	Aggregated	7,676.54	267,713.75	96,561.22	0.089173867	0.124954127	0	0	0	0	0			
RIVERSIDE	2021	MCY	GAS	Aggregated	35,659.72	267,522.39	71,319.43	2.625592208	0	1.772531499	1.234266381	1.862850794	4.090250425	6.554859086			
RIVERSIDE	2021	MDV	GAS	Aggregated	208,791.37	7,677,992.85	957,457.85	0.041277887	0	0.436242794	0.201755855	0.512699836	0.967022245	1.206278926			
RIVERSIDE	2021	MDV	DSL	Aggregated	3,985.67	171,354.65	19,488.50	0.012585426	0	0	0	0	0	0			
RIVERSIDE	2021	MDV	ELEC	Aggregated	787.11	25,973.70	4,035.65	0	0	0	0.004888026	0	0.03858807	0.070104047			
RIVERSIDE	2021	MH	GAS	Aggregated	6,261.09	50,694.81	626.36	0.086161087	0	0.142614178	0.11381459	2.086195037	0.123726953	0.330536321			
RIVERSIDE	2021	MH	DSL	Aggregated	2,593.42	21,461.99	259.34	0.081778728	0	0	0	0	0	0			
RIVERSIDE	2021	OBUS	GAS	Aggregated	589.48	27,261.01	11,794.32	0.077914704	1.087610606	0.16733065	0.033599883	0.332191281	0.05465176	0.121305343			
RIVERSIDE	2021	OBUS	DSL	Aggregated	347.99	24,855.13	3,314.36	0.138379933	1.238602007	0	0	0	0	0			
RIVERSIDE	2021	SBUS	GAS	Aggregated	475.47	19,228.88	1,901.89	0.058870063	15.52536996	0.289012438	0.071943775	0.385852212	0.03667582	0.07435097			
RIVERSIDE	2021	SBUS	DSL	Aggregated	1,131.96	35,858.76	13,062.61	0.143053159	0.311974935	0	0	0	0	0			
RIVERSIDE	2021	UBUS	GAS	Aggregated	163.48	23,017.82	653.94	0.017180065	0	0.213598356	0.034099509	0.131929437	0.016954817	0.024982851			
RIVERSIDE	2021	UBUS	DSL	Aggregated	1.11	58.57	4.42	0.03820325	0	0	0	0	0	0			
RIVERSIDE	2021	UBUS	ELEC	Aggregated	5.06	271.53	20.23	0	0	0	0	0	0	0			
RIVERSIDE	2021	UBUS	NG	Aggregated	306.62	41,979.73	1,226.49	5.321263218	0	0	0	0	0	0			
						LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite		**0.0435**	**0.0192**	**0.2807**	**0.1570**	**0.3506**	**0.6543**	**0.8806**	**0.146923**	**0.202142**	**1.1373**

EMFAC2017 (v1.0.2) Emission Rates
Region Type: County
Region: RIVERSIDE
Calendar Year: 2021
Season: Summer
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN
Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day
OBUS	5.9	min/day

Table 7. Operation Mobile Source Emissions Factors - EMFAC2017 Summer NOx

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	NOx_RUNEX (g/mile)	NOx_IDLEX (g/vehicle/day)	NOx_STREX (g/trip)
RIVERSIDE	2021	HHDT	DSL	Aggregated	27,250.49	3,825,933.40	312,944.63	2.879821894	81.65974084	1.995305353
RIVERSIDE	2021	MHDT	DSL	Aggregated	15,756.36	963,068.11	151,121.37	2.422429719	8.403480346	1.360943231
							HHDT and MHDT Composite	**2.7878**	**66.9279**	**1.8677**
RIVERSIDE	2021	LDA	GAS	Aggregated	750,300.86	29,816,029.44	3,552,291.91	0.037151453	0	0.185278477
RIVERSIDE	2021	LDA	DSL	Aggregated	6,761.58	284,051.95	32,376.68	0.075747759	0	0
RIVERSIDE	2021	LDA	ELEC	Aggregated	10,150.83	397,377.33	51,147.17	0	0	0
RIVERSIDE	2021	LDT1	GAS	Aggregated	80,587.48	3,017,205.80	366,690.86	0.133947533	0	0.295708415
RIVERSIDE	2021	LDT1	DSL	Aggregated	42.62	937.32	139.37	1.176544468	0	0
RIVERSIDE	2021	LDT1	ELEC	Aggregated	312.67	12,704.03	1,592.30	0	0	0
RIVERSIDE	2021	LDT2	GAS	Aggregated	246,596.51	9,631,963.54	1,154,462.90	0.084125053	0	0.300793706
RIVERSIDE	2021	LDT2	DSL	Aggregated	1,288.99	58,422.34	6,390.04	0.046360167	0	0
RIVERSIDE	2021	LDT2	ELEC	Aggregated	1,692.17	54,349.02	8,602.01	0	0	0
RIVERSIDE	2021	LHDT1	GAS	Aggregated	20,885.97	692,854.05	311,169.90	0.203791092	0.039862667	0.540716971
RIVERSIDE	2021	LHDT1	DSL	Aggregated	19,999.78	695,951.65	251,572.05	2.810247649	2.32175026	0
RIVERSIDE	2021	LHDT2	GAS	Aggregated	3,292.65	108,726.45	49,055.53	0.181489898	0.039962831	0.548305834
RIVERSIDE	2021	LHDT2	DSL	Aggregated	7,676.54	267,713.75	96,561.22	2.278241336	2.321112538	0
RIVERSIDE	2021	MCY	GAS	Aggregated	35,659.72	267,522.39	71,319.43	0.979670684	0	0.247121651
RIVERSIDE	2021	MDV	GAS	Aggregated	208,791.37	7,677,992.85	957,457.85	0.113900435	0	0.38624874
RIVERSIDE	2021	MDV	DSL	Aggregated	3,985.67	171,354.65	19,488.50	0.057636059	0	0
RIVERSIDE	2021	MDV	ELEC	Aggregated	787.11	25,973.70	4,035.65	0	0	0
RIVERSIDE	2021	MH	GAS	Aggregated	6,261.09	50,694.81	626.36	0.388205498	0	0.313207663
RIVERSIDE	2021	MH	DSL	Aggregated	2,593.42	21,461.99	259.34	4.176670964	0	0
RIVERSIDE	2021	OBUS	GAS	Aggregated	589.48	27,261.01	11,794.32	0.39918744	0.064999573	0.310274675
RIVERSIDE	2021	OBUS	DSL	Aggregated	347.99	24,855.13	3,314.36	2.887930188	19.22024827	1.543663927
RIVERSIDE	2021	SBUS	GAS	Aggregated	475.47	19,228.88	1,901.89	0.273438514	0.926404313	0.529257874
RIVERSIDE	2021	SBUS	DSL	Aggregated	1,131.96	35,858.76	13,062.61	6.811804772	47.99111527	0.714016556
RIVERSIDE	2021	UBUS	GAS	Aggregated	163.48	23,017.82	653.94	0.118066338	0	0.506209654
RIVERSIDE	2021	UBUS	DSL	Aggregated	1.11	58.57	4.42	0.47742212	0	0
RIVERSIDE	2021	UBUS	ELEC	Aggregated	5.06	271.53	20.23	0	0	0
RIVERSIDE	2021	UBUS	NG	Aggregated	306.62	41,979.73	1,226.49	0.415811509	0	0
							LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite	**0.1251**	**0.0898**	**0.2463**

Table 8. Operation Mobile Source Emissions Factors - EMFAC2017 Summer CO

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	CO_RUNEX (g/mile)	CO_IDLEX (g/vehicle/day)	CO_STREX (g/trip)
RIVERSIDE	2021	HHDT	DSL	Aggregated	27,250.49	3,825,933.40	312,944.63	0.315149187	85.0476912	0
RIVERSIDE	2021	MHDT	DSL	Aggregated	15,756.36	963,068.11	151,121.37	0.428592321	2.123298716	0
						HHDT and MHDT Composite		**0.3380**	**68.3716**	**0.0000**
RIVERSIDE	2021	LDA	GAS	Aggregated	750,300.86	29,816,029.44	3,552,291.91	0.826283976	0	1.917554284
RIVERSIDE	2021	LDA	DSL	Aggregated	6,761.58	284,051.95	32,376.68	0.189719211	0	0
RIVERSIDE	2021	LDA	ELEC	Aggregated	10,150.83	397,377.33	51,147.17	0	0	0
RIVERSIDE	2021	LDT1	GAS	Aggregated	80,587.48	3,017,205.80	366,690.86	1.96735578	0	2.156416721
RIVERSIDE	2021	LDT1	DSL	Aggregated	42.62	937.32	139.37	1.392250777	0	0
RIVERSIDE	2021	LDT1	ELEC	Aggregated	312.67	12,704.03	1,592.30	0	0	0
RIVERSIDE	2021	LDT2	GAS	Aggregated	246,596.51	9,631,963.54	1,154,462.90	1.21335302	0	2.449553772
RIVERSIDE	2021	LDT2	DSL	Aggregated	1,288.99	58,422.34	6,390.04	0.113342345	0	0
RIVERSIDE	2021	LDT2	ELEC	Aggregated	1,692.17	54,349.02	8,602.01	0	0	0
RIVERSIDE	2021	LHDT1	GAS	Aggregated	20,885.97	692,854.05	311,169.90	0.835831183	3.750864443	1.656626794
RIVERSIDE	2021	LHDT1	DSL	Aggregated	19,999.78	695,951.65	251,572.05	0.631982506	0.909745076	0
RIVERSIDE	2021	LHDT2	GAS	Aggregated	3,292.65	108,726.45	49,055.53	0.527248272	3.761022038	1.582513647
RIVERSIDE	2021	LHDT2	DSL	Aggregated	7,676.54	267,713.75	96,561.22	0.53222324	0.909745076	0
RIVERSIDE	2021	MCY	GAS	Aggregated	35,659.72	267,522.39	71,319.43	20.27171756	0	8.000176957
RIVERSIDE	2021	MDV	GAS	Aggregated	208,791.37	7,677,992.85	957,457.85	1.489968614	0	2.953135969
RIVERSIDE	2021	MDV	DSL	Aggregated	3,985.67	171,354.65	19,488.50	0.180662093	0	0
RIVERSIDE	2021	MDV	ELEC	Aggregated	787.11	25,973.70	4,035.65	0	0	0
RIVERSIDE	2021	MH	GAS	Aggregated	6,261.09	50,694.81	626.36	1.869000649	0	2.760542091
RIVERSIDE	2021	MH	DSL	Aggregated	2,593.42	21,461.99	259.34	0.338926164	0	0
RIVERSIDE	2021	OBUS	GAS	Aggregated	589.48	27,261.01	11,794.32	1.394314631	5.769076586	3.084874567
RIVERSIDE	2021	OBUS	DSL	Aggregated	347.99	24,855.13	3,314.36	0.446632891	10.93995491	0
RIVERSIDE	2021	SBUS	GAS	Aggregated	475.47	19,228.88	1,901.89	0.890517537	82.22963641	5.326799909
RIVERSIDE	2021	SBUS	DSL	Aggregated	1,131.96	35,858.76	13,062.61	0.345841154	5.00629467	0
RIVERSIDE	2021	UBUS	GAS	Aggregated	163.48	23,017.82	653.94	0.196639441	0	3.725263451
RIVERSIDE	2021	UBUS	DSL	Aggregated	1.11	58.57	4.42	0.05712856	0	0
RIVERSIDE	2021	UBUS	ELEC	Aggregated	5.06	271.53	20.23	0	0	0
RIVERSIDE	2021	UBUS	NG	Aggregated	306.62	41,979.73	1,226.49	40.43881597	0	0
						LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite		**1.1664**	**0.1190**	**2.0772**

Table 9. Operation Mobile Source Emissions Factors - EMFAC2017 Summer SO2

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	SO2_RUNEX (g/mile)	SO2_IDLEX (g/vehicle/day)	SO2_STREX (g/trip)
RIVERSIDE	2021	HHDT	DSL	Aggregated	27,250.49	3,825,933.40	312,944.63	0.012699034	0.152408823	0
RIVERSIDE	2021	MHDT	DSL	Aggregated	15,756.36	963,068.11	151,121.37	0.008799184	0.008054197	0
						HHDT and MHDT Composite		**0.0119**	**0.1234**	**0.0000**
RIVERSIDE	2021	LDA	GAS	Aggregated	750,300.86	29,816,029.44	3,552,291.91	0.002907783	0	0.000549376
RIVERSIDE	2021	LDA	DSL	Aggregated	6,761.58	284,051.95	32,376.68	0.001891571	0	0
RIVERSIDE	2021	LDA	ELEC	Aggregated	10,150.83	397,377.33	51,147.17	0	0	0
RIVERSIDE	2021	LDT1	GAS	Aggregated	80,587.48	3,017,205.80	366,690.86	0.003396355	0	0.000656281
RIVERSIDE	2021	LDT1	DSL	Aggregated	42.62	937.32	139.37	0.003763271	0	0
RIVERSIDE	2021	LDT1	ELEC	Aggregated	312.67	12,704.03	1,592.30	0	0	0
RIVERSIDE	2021	LDT2	GAS	Aggregated	246,596.51	9,631,963.54	1,154,462.90	0.003616749	0	0.000710373
RIVERSIDE	2021	LDT2	DSL	Aggregated	1,288.99	58,422.34	6,390.04	0.002539802	0	0
RIVERSIDE	2021	LDT2	ELEC	Aggregated	1,692.17	54,349.02	8,602.01	0	0	0
RIVERSIDE	2021	LHDT1	GAS	Aggregated	20,885.97	692,854.05	311,169.90	0.007859605	0.001212097	0.000187114
RIVERSIDE	2021	LHDT1	DSL	Aggregated	19,999.78	695,951.65	251,572.05	0.004598077	0.001301516	0
RIVERSIDE	2021	LHDT2	GAS	Aggregated	3,292.65	108,726.45	49,055.53	0.009007205	0.001397857	0.000212885
RIVERSIDE	2021	LHDT2	DSL	Aggregated	7,676.54	267,713.75	96,561.22	0.00499739	0.002091665	0
RIVERSIDE	2021	MCY	GAS	Aggregated	35,659.72	267,522.39	71,319.43	0.002070757	0	0.00058576
RIVERSIDE	2021	MDV	GAS	Aggregated	208,791.37	7,677,992.85	957,457.85	0.004457476	0	0.000891454
RIVERSIDE	2021	MDV	DSL	Aggregated	3,985.67	171,354.65	19,488.50	0.003439686	0	0
RIVERSIDE	2021	MDV	ELEC	Aggregated	787.11	25,973.70	4,035.65	0	0	0
RIVERSIDE	2021	MH	GAS	Aggregated	6,261.09	50,694.81	626.36	0.01666241	0	0.000257052
RIVERSIDE	2021	MH	DSL	Aggregated	2,593.42	21,461.99	259.34	0.008903009	0	0
RIVERSIDE	2021	OBUS	GAS	Aggregated	589.48	27,261.01	11,794.32	0.016555899	0.003784506	0.000260802
RIVERSIDE	2021	OBUS	DSL	Aggregated	347.99	24,855.13	3,314.36	0.010541024	0.024153402	0
RIVERSIDE	2021	SBUS	GAS	Aggregated	475.47	19,228.88	1,901.89	0.008816413	0.026319934	0.000438345
RIVERSIDE	2021	SBUS	DSL	Aggregated	1,131.96	35,858.76	13,062.61	0.011673226	0.036542458	0
RIVERSIDE	2021	UBUS	GAS	Aggregated	163.48	23,017.82	653.94	0.013790876	0	0.000510287
RIVERSIDE	2021	UBUS	DSL	Aggregated	1.11	58.57	4.42	0.010787911	0	0
RIVERSIDE	2021	UBUS	ELEC	Aggregated	5.06	271.53	20.23	0	0	0
RIVERSIDE	2021	UBUS	NG	Aggregated	306.62	41,979.73	1,226.49	0	0	0
						LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite		**0.0034**	**0.0001**	**0.0006**

Table 10. Operation Mobile Source Emissions Factors - EMFAC2017 Summer PM10

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	PM10_RUNEX (g/mile)	PM10_IDLEX (g/vehicle/day)	PM10_STREX (g/trip)	PM10_PMTW (g/mile)	PM10_PMBW (g/mile)	PM10_Combined - Calculated (g/mile)
RIVERSIDE	2021	HHDT	DSL	Aggregated	27,250.49	3,825,933.40	312,944.63	0.054452552	0.117349657	0	0.035593372	0.061042633	
RIVERSIDE	2021	MHDT	DSL	Aggregated	15,756.36	963,068.11	151,121.37	0.090642513	0.024661459	0	0.012000003	0.130340037	
						HHDT and MHDT Composite		**0.0617**	**0.0987**	**0.0000**	**0.0308**	**0.0750**	**0.167557**
RIVERSIDE	2021	LDA	GAS	Aggregated	750,300.86	29,816,029.44	3,552,291.91	0.001407186	0	0.001964077	0.008000002	0.036750011	
RIVERSIDE	2021	LDA	DSL	Aggregated	6,761.58	284,051.95	32,376.68	0.007645761	0	0	0.008000002	0.036750011	
RIVERSIDE	2021	LDA	ELEC	Aggregated	10,150.83	397,377.33	51,147.17	0	0	0	0.008000002	0.036750011	
RIVERSIDE	2021	LDT1	GAS	Aggregated	80,587.48	3,017,205.80	366,690.86	0.002249763	0	0.002965001	0.008000002	0.036750011	
RIVERSIDE	2021	LDT1	DSL	Aggregated	42.62	937.32	139.37	0.174163625	0	0	0.008000002	0.036750011	
RIVERSIDE	2021	LDT1	ELEC	Aggregated	312.67	12,704.03	1,592.30	0	0	0	0.008000002	0.036750011	
RIVERSIDE	2021	LDT2	GAS	Aggregated	246,596.51	9,631,963.54	1,154,462.90	0.001479348	0	0.001983814	0.008000002	0.036750011	
RIVERSIDE	2021	LDT2	DSL	Aggregated	1,288.99	58,422.34	6,390.04	0.006020956	0	0	0.008000002	0.036750011	
RIVERSIDE	2021	LDT2	ELEC	Aggregated	1,692.17	54,349.02	8,602.01	0	0	0	0.008000002	0.036750011	
RIVERSIDE	2021	LHDT1	GAS	Aggregated	20,885.97	692,854.05	311,169.90	0.001074259	0	0.000420534	0.008000002	0.076440022	
RIVERSIDE	2021	LHDT1	DSL	Aggregated	19,999.78	695,951.65	251,572.05	0.02102497	0.027286864	0	0.012000003	0.076440022	
RIVERSIDE	2021	LHDT2	GAS	Aggregated	3,292.65	108,726.45	49,055.53	0.000915661	0	0.000339466	0.008000002	0.089180026	
RIVERSIDE	2021	LHDT2	DSL	Aggregated	7,676.54	267,713.75	96,561.22	0.019395893	0.027303987	0	0.012000003	0.089180026	
RIVERSIDE	2021	MCY	GAS	Aggregated	35,659.72	267,522.39	71,319.43	0.001757318	0	0.002866434	0.004000001	0.011760003	
RIVERSIDE	2021	MDV	GAS	Aggregated	208,791.37	7,677,992.85	957,457.85	0.001495188	0	0.002105384	0.008000002	0.036750011	
RIVERSIDE	2021	MDV	DSL	Aggregated	3,985.67	171,354.65	19,488.50	0.005282657	0	0	0.008000002	0.036750011	
RIVERSIDE	2021	MDV	ELEC	Aggregated	787.11	25,973.70	4,035.65	0	0	0	0.008000002	0.036750011	
RIVERSIDE	2021	MH	GAS	Aggregated	6,261.09	50,694.81	626.36	0.001208637	0	0.000354272	0.012000003	0.130340037	
RIVERSIDE	2021	MH	DSL	Aggregated	2,593.42	21,461.99	259.34	0.144090167	0	0	0.016000005	0.130340037	
RIVERSIDE	2021	OBUS	GAS	Aggregated	589.48	27,261.01	11,794.32	0.000689727	0	0.000242813	0.012000003	0.130340037	
RIVERSIDE	2021	OBUS	DSL	Aggregated	347.99	24,855.13	3,314.36	0.080687755	0.065130322	0	0.012000003	0.130340037	
RIVERSIDE	2021	SBUS	GAS	Aggregated	475.47	19,228.88	1,901.89	0.000741736	0	0.0003123	0.008000002	0.744800204	
RIVERSIDE	2021	SBUS	DSL	Aggregated	1,131.96	35,858.76	13,062.61	0.044060934	0.045397464	0	0.012000003	0.744800213	
RIVERSIDE	2021	UBUS	GAS	Aggregated	163.48	23,017.82	653.94	0.001140864	0	0.000470171	0.009546243	0.105090841	
RIVERSIDE	2021	UBUS	DSL	Aggregated	1.11	58.57	4.42	0.004292743	0	0	0.012000007	0.130340079	
RIVERSIDE	2021	UBUS	ELEC	Aggregated	5.06	271.53	20.23	0	0	0	0.035889386	0.06205627	
RIVERSIDE	2021	UBUS	NG	Aggregated	306.62	41,979.73	1,226.49	0.003934649	0	0	0.028616727	0.078554835	
						LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite		**0.0020**	**0.0006**	**0.0018**	**0.0081**	**0.0390**	**0.049106**

Table 11. Operation Mobile Source Emissions Factors - EMFAC2017 Summer PM2.5

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	PM2.5_RUNEX (g/mile)	PM2.5_IDLEX (g/vehicle/day)	PM2.5_STREX (g/trip)	PM2.5_PMTW (g/mile)	PM2.5_PMBW (g/mile)	PM2.5_Combined - Calculated (g/mile)
RIVERSIDE	2021	HHDT	DSL	Aggregated	27,250.49	3,825,933.40	312,944.63	0.052096959	0.112273163	0	0.008898343	0.026161128	
RIVERSIDE	2021	MHDT	DSL	Aggregated	15,756.36	963,068.11	151,121.37	0.086721358	0.023594615	0	0.003000001	0.055860016	
						HHDT and MHDT Composite		**0.0591**	**0.0944**	**0.0000**	**0.0077**	**0.0321**	**0.098906**
RIVERSIDE	2021	LDA	GAS	Aggregated	750,300.86	29,816,029.44	3,552,291.91	0.001293882	0	0.001805983	0.002000001	0.015750005	
RIVERSIDE	2021	LDA	DSL	Aggregated	6,761.58	284,051.95	32,376.68	0.007315009	0	0	0.002000001	0.015750005	
RIVERSIDE	2021	LDA	ELEC	Aggregated	10,150.83	397,377.33	51,147.17	0	0	0	0.002000001	0.015750005	
RIVERSIDE	2021	LDT1	GAS	Aggregated	80,587.48	3,017,205.80	366,690.86	0.002068731	0	0.002726449	0.002000001	0.015750005	
RIVERSIDE	2021	LDT1	DSL	Aggregated	42.62	937.32	139.37	0.166629383	0	0	0.002000001	0.015750005	
RIVERSIDE	2021	LDT1	ELEC	Aggregated	312.67	12,704.03	1,592.30	0	0	0	0.002000001	0.015750005	
RIVERSIDE	2021	LDT2	GAS	Aggregated	246,596.51	9,631,963.54	1,154,462.90	0.001360267	0	0.001824137	0.002000001	0.015750005	
RIVERSIDE	2021	LDT2	DSL	Aggregated	1,288.99	58,422.34	6,390.04	0.005760492	0	0	0.002000001	0.015750005	
RIVERSIDE	2021	LDT2	ELEC	Aggregated	1,692.17	54,349.02	8,602.01	0	0	0	0.002000001	0.015750005	
RIVERSIDE	2021	LHDT1	GAS	Aggregated	20,885.97	692,854.05	311,169.90	0.000987741	0	0.000386665	0.002000001	0.032760009	
RIVERSIDE	2021	LHDT1	DSL	Aggregated	19,999.78	695,951.65	251,572.05	0.020115439	0.026106446	0	0.003000001	0.032760009	
RIVERSIDE	2021	LHDT2	GAS	Aggregated	3,292.65	108,726.45	49,055.53	0.000841916	0	0.000312126	0.002000001	0.038220011	
RIVERSIDE	2021	LHDT2	DSL	Aggregated	7,676.54	267,713.75	96,561.22	0.018556835	0.026122829	0	0.003000001	0.038220011	
RIVERSIDE	2021	MCY	GAS	Aggregated	35,659.72	267,522.39	71,319.43	0.001644228	0	0.002699911	0.001	0.005040001	
RIVERSIDE	2021	MDV	GAS	Aggregated	208,791.37	7,677,992.85	957,457.85	0.001375619	0	0.001937165	0.002000001	0.015750005	
RIVERSIDE	2021	MDV	DSL	Aggregated	3,985.67	171,354.65	19,488.50	0.005054132	0	0	0.002000001	0.015750005	
RIVERSIDE	2021	MDV	ELEC	Aggregated	787.11	25,973.70	4,035.65	0	0	0	0.002000001	0.015750005	
RIVERSIDE	2021	MH	GAS	Aggregated	6,261.09	50,694.81	626.36	0.001111297	0	0.00032574	0.003000001	0.055860016	
RIVERSIDE	2021	MH	DSL	Aggregated	2,593.42	21,461.99	259.34	0.13785689	0	0	0.004000001	0.055860016	
RIVERSIDE	2021	OBUS	GAS	Aggregated	589.48	27,261.01	11,794.32	0.000634178	0	0.000223258	0.003000001	0.055860016	
RIVERSIDE	2021	OBUS	DSL	Aggregated	347.99	24,855.13	3,314.36	0.077197238	0.062312813	0	0.003000001	0.055860016	
RIVERSIDE	2021	SBUS	GAS	Aggregated	475.47	19,228.88	1,901.89	0.000681999	0	0.000287148	0.002000001	0.319200087	
RIVERSIDE	2021	SBUS	DSL	Aggregated	1,131.96	35,858.76	13,062.61	0.042154878	0.04343359	0	0.003000001	0.319200091	
RIVERSIDE	2021	UBUS	GAS	Aggregated	163.48	23,017.82	653.94	0.001048982	0	0.000432305	0.002386561	0.045038932	
RIVERSIDE	2021	UBUS	DSL	Aggregated	1.11	58.57	4.42	0.004107041	0	0	0.003000002	0.055860034	
RIVERSIDE	2021	UBUS	ELEC	Aggregated	5.06	271.53	20.23	0	0	0	0.008972347	0.026595544	
RIVERSIDE	2021	UBUS	NG	Aggregated	306.62	41,979.73	1,226.49	0.003764438	0	0	0.007154182	0.033666358	
						LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite		**0.0018**	**0.0006**	**0.0017**	**0.0020**	**0.0167**	**0.020600**

Table 12. Operation Mobile Source Emissions Factors - EMFAC2017 Summer CO2

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	CO2_RUNEX (g/mile)	CO2_IDLEX (g/vehicle/day)	CO2_STREX (g/trip)
RIVERSIDE	2021	HHDT	DSL	Aggregated	27,250.49	3,825,933.40	312,944.63	1344.168147	16132.17844	0
RIVERSIDE	2021	MHDT	DSL	Aggregated	15,756.36	963,068.11	151,121.37	931.376529	852.5211043	0
						HHDT and MHDT Composite		**1261.1558**	**13059.4396**	**0.0000**
RIVERSIDE	2021	LDA	GAS	Aggregated	750,300.86	29,816,029.44	3,552,291.91	293.8397474	0	55.51606057
RIVERSIDE	2021	LDA	DSL	Aggregated	6,761.58	284,051.95	32,376.68	200.0901118	0	0
RIVERSIDE	2021	LDA	ELEC	Aggregated	10,150.83	397,377.33	51,147.17	0	0	0
RIVERSIDE	2021	LDT1	GAS	Aggregated	80,587.48	3,017,205.80	366,690.86	343.2114396	0	66.31904847
RIVERSIDE	2021	LDT1	DSL	Aggregated	42.62	937.32	139.37	398.0782468	0	0
RIVERSIDE	2021	LDT1	ELEC	Aggregated	312.67	12,704.03	1,592.30	0	0	0
RIVERSIDE	2021	LDT2	GAS	Aggregated	246,596.51	9,631,963.54	1,154,462.90	365.482858	0	71.78517786
RIVERSIDE	2021	LDT2	DSL	Aggregated	1,288.99	58,422.34	6,390.04	268.6598839	0	0
RIVERSIDE	2021	LDT2	ELEC	Aggregated	1,692.17	54,349.02	8,602.01	0	0	0
RIVERSIDE	2021	LHDT1	GAS	Aggregated	20,885.97	692,854.05	311,169.90	794.2356318	122.4858556	18.90839023
RIVERSIDE	2021	LHDT1	DSL	Aggregated	19,999.78	695,951.65	251,572.05	486.3839212	137.6741944	0
RIVERSIDE	2021	LHDT2	GAS	Aggregated	3,292.65	108,726.45	49,055.53	910.2038076	141.2574218	21.51268381
RIVERSIDE	2021	LHDT2	DSL	Aggregated	7,676.54	267,713.75	96,561.22	528.6231579	221.2560171	0
RIVERSIDE	2021	MCY	GAS	Aggregated	35,659.72	267,522.39	71,319.43	209.2559577	0	59.19268359
RIVERSIDE	2021	MDV	GAS	Aggregated	208,791.37	7,677,992.85	957,457.85	450.4407348	0	90.08402103
RIVERSIDE	2021	MDV	DSL	Aggregated	3,985.67	171,354.65	19,488.50	363.8495244	0	0
RIVERSIDE	2021	MDV	ELEC	Aggregated	787.11	25,973.70	4,035.65	0	0	0
RIVERSIDE	2021	MH	GAS	Aggregated	6,261.09	50,694.81	626.36	1683.784263	0	25.97582398
RIVERSIDE	2021	MH	DSL	Aggregated	2,593.42	21,461.99	259.34	941.7589447	0	0
RIVERSIDE	2021	OBUS	GAS	Aggregated	589.48	27,261.01	11,794.32	1673.020951	382.4351647	26.3548305
RIVERSIDE	2021	OBUS	DSL	Aggregated	347.99	24,855.13	3,314.36	1115.746917	2556.590737	0
RIVERSIDE	2021	SBUS	GAS	Aggregated	475.47	19,228.88	1,901.89	890.923786	2659.70473	44.29604909
RIVERSIDE	2021	SBUS	DSL	Aggregated	1,131.96	35,858.76	13,062.61	1235.588303	3867.948355	0
RIVERSIDE	2021	UBUS	GAS	Aggregated	163.48	23,017.82	653.94	1393.60754	0	51.56596853
RIVERSIDE	2021	UBUS	DSL	Aggregated	1.11	58.57	4.42	1141.143654	0	0
RIVERSIDE	2021	UBUS	ELEC	Aggregated	5.06	271.53	20.23	0	0	0
RIVERSIDE	2021	UBUS	NG	Aggregated	306.62	41,979.73	1,226.49	1751.725881	0	0
						LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite		**345.1891**	**10.0897**	**57.7359**

EMFAC2017 (v1.0.2) Emission Rates
Region Type: County
Region: RIVERSIDE
Calendar Year: 2021
Season: Summer
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN
Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day

Table 14. Operation Mobile Source Emissions Factors - EMFAC2017 Summer N2O

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	N2O_RUNEX (g/mile)	N2O_IDLEX (g/vehicle/day)	N2O_STREX (g/trip)
RIVERSIDE	2021	HHDT	DSL	Aggregated	27,250.49	3,825,933.40	312,944.63	0.211284514	2.535753797	0
RIVERSIDE	2021	MHDT	DSL	Aggregated	15,756.36	963,068.11	151,121.37	0.14639942	0.134004446	0
						HHDT and MHDT Composite		**0.1982**	**2.0528**	**0.0000**
RIVERSIDE	2021	LDA	GAS	Aggregated	750,300.86	29,816,029.44	3,552,291.91	0.004351906	0	0.025922239
RIVERSIDE	2021	LDA	DSL	Aggregated	6,761.58	284,051.95	32,376.68	0.031451379	0	0
RIVERSIDE	2021	LDA	ELEC	Aggregated	10,150.83	397,377.33	51,147.17	0	0	0
RIVERSIDE	2021	LDT1	GAS	Aggregated	80,587.48	3,017,205.80	366,690.86	0.009923342	0	0.031068926
RIVERSIDE	2021	LDT1	DSL	Aggregated	42.62	937.32	139.37	0.062572357	0	0
RIVERSIDE	2021	LDT1	ELEC	Aggregated	312.67	12,704.03	1,592.30	0	0	0
RIVERSIDE	2021	LDT2	GAS	Aggregated	246,596.51	9,631,963.54	1,154,462.90	0.006977574	0	0.033876311
RIVERSIDE	2021	LDT2	DSL	Aggregated	1,288.99	58,422.34	6,390.04	0.042229592	0	0
RIVERSIDE	2021	LDT2	ELEC	Aggregated	1,692.17	54,349.02	8,602.01	0	0	0
RIVERSIDE	2021	LHDT1	GAS	Aggregated	20,885.97	692,854.05	311,169.90	0.012705585	0.003260115	0.042634781
RIVERSIDE	2021	LHDT1	DSL	Aggregated	19,999.78	695,951.65	251,572.05	0.076452779	0.021640466	0
RIVERSIDE	2021	LHDT2	GAS	Aggregated	3,292.65	108,726.45	49,055.53	0.012245716	0.003255556	0.04295114
RIVERSIDE	2021	LHDT2	DSL	Aggregated	7,676.54	267,713.75	96,561.22	0.083092199	0.034778365	0
RIVERSIDE	2021	MCY	GAS	Aggregated	35,659.72	267,522.39	71,319.43	0.059157889	0	0.01471724
RIVERSIDE	2021	MDV	GAS	Aggregated	208,791.37	7,677,992.85	957,457.85	0.008940935	0	0.037957807
RIVERSIDE	2021	MDV	DSL	Aggregated	3,985.67	171,354.65	19,488.50	0.057192078	0	0
RIVERSIDE	2021	MDV	ELEC	Aggregated	787.11	25,973.70	4,035.65	0	0	0
RIVERSIDE	2021	MH	GAS	Aggregated	6,261.09	50,694.81	626.36	0.024350977	0	0.034569579
RIVERSIDE	2021	MH	DSL	Aggregated	2,593.42	21,461.99	259.34	0.148031391	0	0
RIVERSIDE	2021	OBUS	GAS	Aggregated	589.48	27,261.01	11,794.32	0.021124418	0.005647721	0.025354778
RIVERSIDE	2021	OBUS	DSL	Aggregated	347.99	24,855.13	3,314.36	0.175379878	0.401860461	0
RIVERSIDE	2021	SBUS	GAS	Aggregated	475.47	19,228.88	1,901.89	0.018481039	0.089226528	0.05058423
RIVERSIDE	2021	SBUS	DSL	Aggregated	1,131.96	35,858.76	13,062.61	0.194217275	0.607987617	0
RIVERSIDE	2021	UBUS	GAS	Aggregated	163.48	23,017.82	653.94	0.01280363	0	0.057256748
RIVERSIDE	2021	UBUS	DSL	Aggregated	1.11	58.57	4.42	0.179371891	0	0
RIVERSIDE	2021	UBUS	ELEC	Aggregated	5.06	271.53	20.23	0	0	0
RIVERSIDE	2021	UBUS	NG	Aggregated	306.62	41,979.73	1,226.49	0.35710078	0	0
						LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite		**0.0084**	**0.0012**	**0.0281**

EMFAC2017 (v1.0.2) Emission Rates
Region Type: County
Region: RIVERSIDE
Calendar Year: 2021
Season: Summer
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN
Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day
OBUS	5.9	min/day

Table 13. Operation Mobile Source Emissions Factors - EMFAC2017 Summer CH4

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	CH4_RUNEX (g/mile)	CH4_IDLEX (g/vehicle/day)	CH4_STREX (g/trip)
RIVERSIDE	2021	HHDT	DSL	Aggregated	27,250.49	3,825,933.40	312,944.63	0.003223056	0.323880046	0
RIVERSIDE	2021	MHDT	DSL	Aggregated	15,756.36	963,068.11	151,121.37	0.005062701	0.005525192	0
						HHDT and MHDT Composite		**0.0036**	**0.2599**	**0.0000**
RIVERSIDE	2021	LDA	GAS	Aggregated	750,300.86	29,816,029.44	3,552,291.91	0.002868253	0	0.046349576
RIVERSIDE	2021	LDA	DSL	Aggregated	6,761.58	284,051.95	32,376.68	0.00064982	0	0
RIVERSIDE	2021	LDA	ELEC	Aggregated	10,150.83	397,377.33	51,147.17	0	0	0
RIVERSIDE	2021	LDT1	GAS	Aggregated	80,587.48	3,017,205.80	366,690.86	0.009093349	0	0.076034081
RIVERSIDE	2021	LDT1	DSL	Aggregated	42.62	937.32	139.37	0.010554935	0	0
RIVERSIDE	2021	LDT1	ELEC	Aggregated	312.67	12,704.03	1,592.30	0	0	0
RIVERSIDE	2021	LDT2	GAS	Aggregated	246,596.51	9,631,963.54	1,154,462.90	0.004880665	0	0.064319176
RIVERSIDE	2021	LDT2	DSL	Aggregated	1,288.99	58,422.34	6,390.04	0.000680186	0	0
RIVERSIDE	2021	LDT2	ELEC	Aggregated	1,692.17	54,349.02	8,602.01	0	0	0
RIVERSIDE	2021	LHDT1	GAS	Aggregated	20,885.97	692,854.05	311,169.90	0.006589856	0.126987379	0.027120333
RIVERSIDE	2021	LHDT1	DSL	Aggregated	19,999.78	695,951.65	251,572.05	0.004254429	0.005098128	0
RIVERSIDE	2021	LHDT2	GAS	Aggregated	3,292.65	108,726.45	49,055.53	0.004496877	0.128722457	0.025898454
RIVERSIDE	2021	LHDT2	DSL	Aggregated	7,676.54	267,713.75	96,561.22	0.003638294	0.005098128	0
RIVERSIDE	2021	MCY	GAS	Aggregated	35,659.72	267,522.39	71,319.43	0.316789487	0	0.216788223
RIVERSIDE	2021	MDV	GAS	Aggregated	208,791.37	7,677,992.85	957,457.85	0.006667482	0	0.081181708
RIVERSIDE	2021	MDV	DSL	Aggregated	3,985.67	171,354.65	19,488.50	0.000513485	0	0
RIVERSIDE	2021	MDV	ELEC	Aggregated	787.11	25,973.70	4,035.65	0	0	0
RIVERSIDE	2021	MH	GAS	Aggregated	6,261.09	50,694.81	626.36	0.01354948	0	0.031751092
RIVERSIDE	2021	MH	DSL	Aggregated	2,593.42	21,461.99	259.34	0.003336572	0	0
RIVERSIDE	2021	OBUS	GAS	Aggregated	589.48	27,261.01	11,794.32	0.011364287	0.199483986	0.029580797
RIVERSIDE	2021	OBUS	DSL	Aggregated	347.99	24,855.13	3,314.36	0.005645867	0.050534653	0
RIVERSIDE	2021	SBUS	GAS	Aggregated	475.47	19,228.88	1,901.89	0.008270445	2.412752014	0.045937812
RIVERSIDE	2021	SBUS	DSL	Aggregated	1,131.96	35,858.76	13,062.61	0.005836533	0.012728499	0
RIVERSIDE	2021	UBUS	GAS	Aggregated	163.48	23,017.82	653.94	0.003959371	0	0.050172847
RIVERSIDE	2021	UBUS	DSL	Aggregated	1.11	58.57	4.42	0.037433126	0	0
RIVERSIDE	2021	UBUS	ELEC	Aggregated	5.06	271.53	20.23	0	0	0
RIVERSIDE	2021	UBUS	NG	Aggregated	306.62	41,979.73	1,226.49	5.210992782	0	0
						LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite		**0.0098**	**0.0032**	**0.0531**

EMFAC2017 (v1.0.2) Emission Rates
Region Type: County
Region: RIVERSIDE
Calendar Year: 2021
Season: Summer
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN
Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day

Table 14. Paved Road Fugitive Emissions - Operation Mobile Sources

Equation:

$E = k \times (sL/2)^{0.91} \times (W)1.02$ [maximum day]

Where:			Units
k	particle size multiplier (PM_{10})	0.00220	lb/VMT
k	particle size multiplier ($PM_{2.5}$)	0.00054	lb/VMT
sL	silt loading (2)	0.1	g/m^2
W	average weight (tons) of the vehicle traveling the road	2.4	tons

Notes/References:
k = Emission factors from CalEEMod2016.3.1 per AP-42, Section 13.2.1 (Paved Roads).
sL = Silt loading from CalEEMod2016.3.2
For daily emissions it is assumed to have no precipitation.

Truck Weight Assumptions

EMFAC Definition	EMFAC Category	GVWR (pounds)	GVWR (tons)	
Heavy Heavy-Duty Truck	HHDT	>33,000	17	*Assumed 33,000 pounds*
Medium Heavy-Duty Truck	MHDT	14,001-33,000	8	*Assumed average of 14,001 & 33,000 pounds*
Composite Heavy & Medium Heavy-Duty Truck	HHDT & MHDT	14,001-33,000+	13	*Assumed average of HHDT & MHDT pounds*

Source: EMFAC 2014
GVWR = Gross Vehicle Weight Rating
1 pound = 0.0005 US tons

Employee Vehicles Evaluated:

Employee Type	Average Weight (tons)
Passenger Vehicles	2.4

Reference:
Source: CalEEMod2016.3.2 (average vehicle weight = 2.4 tons)
Per AP-42, Section 13.2.1 (Paved Roads): The above equation calls for the average weight of all vehicles traveling the road. For example, if 99 percent of traffic on the road are 2 ton cars/trucks while the remaining 1 percent consists of 20 ton trucks, then the mean weight "W" is 2.2 tons. More specifically, the above equation is not intended to be used to calculate a separate emission factor for each vehicle weight class. Instead, only one emission factor should be calculated to represent the "fleet" average weight of all vehicles traveling the road.

Emission Factors	**PM10 Paved Road (lb/VMT)**	**PM2.5 Paved Road (lb/VMT)**	**PM10 Paved Road (g/VMT)**	**PM2.5 Paved Road (g/VMT)**
HHDT	0.0049	0.0012	2.2087	0.5421
MHDT	0.0023	0.0006	1.0239	0.2513
HHDT & MHDT	0.0037	0.0009	1.6800	0.4124
Passenger Vehicles	0.0007	0.0002	0.2998	0.0736
Average	0.0022	0.0005	0.9899	0.2430

EMFAC2017 (v1.0.2) Emission Rates
Region Type: County
Region: RIVERSIDE
Calendar Year: 2022
Season: Summer
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, g/mile for RUNEX, PMBW and PMTW

Region	Calendar Y	Vehicle Cat	Model Year	Speed	Fuel	VMT	ROG_RUNE	TOG_RUNE
RIVERSIDE	2021	HHDT	Aggregated	15	DSL	6117.946	0.3548	0.4039
RIVERSIDE	2021	MHDT	Aggregated	15	DSL	1962.902	0.558851	0.636209
					HHDT and MHDT Composite		**0.404339**	**0.460309**
RIVERSIDE	2021	LDA	Aggregated	15	GAS	91128.87	0.033207	0.04843
RIVERSIDE	2021	LDA	Aggregated	15	DSL	866.093	0.078428	0.089285
RIVERSIDE	2021	LDT1	Aggregated	15	GAS	9476.79	0.119535	0.174305
RIVERSIDE	2021	LDT1	Aggregated	15	DSL	3.022153	0.517578	0.589229
RIVERSIDE	2021	LDT2	Aggregated	15	GAS	30191.86	0.060044	0.087563
RIVERSIDE	2021	LDT2	Aggregated	15	DSL	185.1373	0.097803	0.111342
RIVERSIDE	2021	LHDT1	Aggregated	15	GAS	1575.873	0.082881	0.120939
RIVERSIDE	2021	LHDT1	Aggregated	15	DSL	1317.893	0.324148	0.369021
RIVERSIDE	2021	LHDT2	Aggregated	15	GAS	254.5798	0.057076	0.083286
RIVERSIDE	2021	LHDT2	Aggregated	15	DSL	511.6154	0.312868	0.35618
RIVERSIDE	2021	MCY	Aggregated	15	GAS	859.4828	5.67088	7.005923
RIVERSIDE	2021	MDV	Aggregated	15	GAS	24009.85	0.084545	0.121139
RIVERSIDE	2021	MDV	Aggregated	15	DSL	528.2126	0.07405	0.084302
RIVERSIDE	2021	MH	Aggregated	15	GAS	111.9295	0.160808	0.23465
RIVERSIDE	2021	MH	Aggregated	15	DSL	43.21963	0.408399	0.464936
RIVERSIDE	2021	OBUS	Aggregated	15	GAS	60.35342	0.175543	0.256152
RIVERSIDE	2021	OBUS	Aggregated	15	DSL	50.49645	0.655129	0.745814
RIVERSIDE	2021	SBUS	Aggregated	15	GAS	1334.714	0.081044	0.118259
RIVERSIDE	2021	SBUS	Aggregated	15	DSL	2489.027	0.309359	0.352182
RIVERSIDE	2021	UBUS	Aggregated	15	GAS	708.4647	0.031091	0.045367
RIVERSIDE	2021	UBUS	Aggregated	15	DSL	4.45106	0.000669	0.04779
RIVERSIDE	2021	UBUS	Aggregated	15	NG	2868.768	0.095062	6.716966
A, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite							**0.0889**	**0.2319**
RIVERSIDE	2021	HHDT	Aggregated	40	DSL	152385.4	0.081779	0.093099
RIVERSIDE	2021	MHDT	Aggregated	40	DSL	52970.02	0.118118	0.134468
					HHDT and MHDT Composite		**0.091152**	**0.10377**
RIVERSIDE	2021	LDA	Aggregated	40	GAS	3236940	0.009742	0.014205
RIVERSIDE	2021	LDA	Aggregated	40	DSL	30893.43	0.013092	0.014904
RIVERSIDE	2021	LDT1	Aggregated	40	GAS	331059.6	0.036872	0.053756
RIVERSIDE	2021	LDT1	Aggregated	40	DSL	104.5262	0.202058	0.23003
RIVERSIDE	2021	LDT2	Aggregated	40	GAS	1054727	0.017882	0.026074
RIVERSIDE	2021	LDT2	Aggregated	40	DSL	6450.797	0.013729	0.015629
RIVERSIDE	2021	LHDT1	Aggregated	40	GAS	40739.24	0.028262	0.04124
RIVERSIDE	2021	LHDT1	Aggregated	40	DSL	34141.32	0.084118	0.095762
RIVERSIDE	2021	LHDT2	Aggregated	40	GAS	6463.931	0.017947	0.026188

RIVERSIDE	2021	LHDT2	Aggregated	40	DSL	13242.88	0.073639	0.083834
RIVERSIDE	2021	MCY	Aggregated	40	GAS	29585.31	1.889182	2.325659
RIVERSIDE	2021	MDV	Aggregated	40	GAS	840989.6	0.026025	0.037041
RIVERSIDE	2021	MDV	Aggregated	40	DSL	18672.93	0.010403	0.011844
RIVERSIDE	2021	MH	Aggregated	40	GAS	3007.724	0.053004	0.077343
RIVERSIDE	2021	MH	Aggregated	40	DSL	1166.787	0.070822	0.080627
RIVERSIDE	2021	OBUS	Aggregated	40	GAS	1517.825	0.053656	0.078295
RIVERSIDE	2021	OBUS	Aggregated	40	DSL	1287.826	0.126452	0.143956
RIVERSIDE	2021	SBUS	Aggregated	40	GAS	2377.217	0.023285	0.033977
RIVERSIDE	2021	SBUS	Aggregated	40	DSL	4433.126	0.060428	0.068793
RIVERSIDE	2021	UBUS	Aggregated	40	GAS	956.8002	0.004864	0.007097
RIVERSIDE	2021	UBUS	Aggregated	40	DSL	0.543927	0.000325	0.023243
RIVERSIDE	2021	UBUS	Aggregated	40	NG	568.5687	0.050632	2.690813
A, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite							**0.0260**	**0.0355**
RIVERSIDE	2021	HHDT	Aggregated	55	DSL	376151.9	0.057161	0.065073
RIVERSIDE	2021	MHDT	Aggregated	55	DSL	131514.3	0.092928	0.105792
HHDT and MHDT Composite							**0.066427**	**0.075622**
RIVERSIDE	2021	MH	Aggregated	55	GAS	7528.319	0.050126	0.073144
RIVERSIDE	2021	MH	Aggregated	55	DSL	2901.465	0.057431	0.065381
RIVERSIDE	2021	OBUS	Aggregated	55	GAS	3769.636	0.048977	0.071468
RIVERSIDE	2021	OBUS	Aggregated	55	DSL	3194.626	0.104996	0.11953
RIVERSIDE	2021	SBUS	Aggregated	55	GAS	850.2137	0.020911	0.030513
RIVERSIDE	2021	SBUS	Aggregated	55	DSL	1585.512	0.047543	0.054124
RIVERSIDE	2021	UBUS	Aggregated	55	GAS	2229.27	0.004379	0.006389
RIVERSIDE	2021	UBUS	Aggregated	55	DSL	1.267307	0.000261	0.018639
RIVERSIDE	2021	UBUS	Aggregated	55	NG	1244.69	0.040678	2.340476
MH, OBUS, SBUS, and UBUS Composite							**0.052246**	**0.190123**
RIVERSIDE	2021	LDA	Aggregated	65	GAS	3111329	0.009982	0.014554
RIVERSIDE	2021	LDA	Aggregated	65	DSL	29791.73	0.011335	0.012904
RIVERSIDE	2021	LDT1	Aggregated	65	GAS	306084.9	0.035138	0.051225
RIVERSIDE	2021	LDT1	Aggregated	65	DSL	91.32748	0.242886	0.27651
RIVERSIDE	2021	LDT2	Aggregated	65	GAS	978026.4	0.017525	0.025553
RIVERSIDE	2021	LDT2	Aggregated	65	DSL	5932.307	0.010697	0.012178
RIVERSIDE	2021	LHDT1	Aggregated	65	GAS	112919.9	0.033193	0.048435
RIVERSIDE	2021	LHDT1	Aggregated	65	DSL	179296.3	0.094352	0.107413
RIVERSIDE	2021	LHDT2	Aggregated	65	GAS	17416.04	0.020387	0.029748
RIVERSIDE	2021	LHDT2	Aggregated	65	DSL	69274.71	0.07896	0.089891
RIVERSIDE	2021	MCY	Aggregated	65	GAS	26311.07	2.199382	2.701884
RIVERSIDE	2021	MDV	Aggregated	65	GAS	780586.7	0.026628	0.037708
RIVERSIDE	2021	MDV	Aggregated	65	DSL	17623.38	0.007998	0.009105
LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, and MDV Composite							**0.029223**	**0.038794**

CO_RUNEX	NOx_RUNE	SOx_RUNE	CO2_RUNEX	CH4_RUNE	PM10_RUN	PM2_5_RU	N2O_RUNEX
1.2993	8.4512	0.0235	2488.6678	0.0165	0.0510	0.0488	0.3912
1.216541	5.324182	0.015311	1620.6665	0.025957	0.122264	0.116975	0.254746
1.27918	**7.691614**	**0.02152**	**2277.8234**	**0.018781**	**0.068308**	**0.065353**	**0.358042**
1.366835	0.052982	0.004745	479.53616	0.0088	0.004343	0.003994	0.006225
1.265108	0.108527	0.003393	358.95792	0.003643	0.01626	0.015556	0.056423
3.343883	0.193751	0.005561	561.95671	0.027275	0.006775	0.00623	0.014381
2.30103	0.909024	0.006782	717.37369	0.024041	0.386057	0.369357	0.112761
2.039421	0.122005	0.005912	597.40264	0.014947	0.00454	0.004174	0.010121
0.801779	0.092214	0.004592	485.70948	0.004543	0.012169	0.011642	0.076347
1.294568	0.262986	0.012591	1272.3965	0.018057	0.003334	0.003065	0.017091
1.363446	2.104379	0.006445	681.77034	0.015056	0.044409	0.042488	0.107165
0.865064	0.251718	0.014447	1459.8933	0.013401	0.002906	0.002672	0.017311
1.335098	1.768081	0.00734	776.44703	0.014532	0.041125	0.039346	0.122047
32.08997	1.119515	0.003426	346.16437	0.846771	0.00474	0.004431	0.067867
2.459755	0.159822	0.007269	734.57941	0.019913	0.004541	0.004177	0.012768
1.315596	0.095778	0.006022	637.02248	0.00344	0.010659	0.010198	0.100131
2.832775	0.498059	0.026753	2703.4232	0.038373	0.003685	0.003388	0.032836
1.168444	8.196882	0.014733	1558.4415	0.018969	0.198372	0.18979	0.244965
2.535004	0.58432	0.026466	2674.4597	0.037606	0.002268	0.002085	0.030922
1.53189	6.254256	0.018053	1910.8831	0.030429	0.148454	0.142032	0.300364
1.156214	0.349418	0.012708	1284.1914	0.016614	0.00149	0.00137	0.023617
0.662078	9.499419	0.016233	1718.2166	0.014369	0.076993	0.073663	0.27008
0.382878	0.236284	0.025444	2571.203	0.010249	0.002401	0.002208	0.024004
0.075759	0.64555	0.012519	1324.2142	0.046826	0.003608	0.003452	0.208148
48.37905	0.515604	0	2079.0259	6.580448	0.004077	0.0039	0.423823
2.6930	**0.2728**	**0.0057**	**615.8404**	**0.1289**	**0.0062**	**0.0058**	**0.0219**
0.362978	2.944929	0.012267	1298.4503	0.003798	0.03525	0.033725	0.204098
0.441063	2.427978	0.008586	908.82356	0.005486	0.067874	0.064937	0.142854
0.383119	**2.811585**	**0.011318**	**1197.9488**	**0.004234**	**0.043665**	**0.041776**	**0.188301**
0.886076	0.035946	0.002673	270.15906	0.002567	0.001257	0.001156	0.004231
0.17494	0.073993	0.001711	180.99256	0.000608	0.007315	0.006999	0.02845
2.082643	0.1271	0.003128	316.10606	0.008352	0.002034	0.00187	0.009499
1.098963	1.121797	0.003407	360.40766	0.009385	0.155049	0.148341	0.056651
1.295718	0.080631	0.003326	336.14245	0.004414	0.001322	0.001216	0.006747
0.104944	0.045672	0.002302	243.45424	0.000638	0.00583	0.005577	0.038268
0.765522	0.196525	0.007124	719.92951	0.005984	0.000992	0.000912	0.012348
0.445783	2.481831	0.004304	455.32842	0.003907	0.019413	0.018573	0.071571
0.533089	0.177333	0.00817	825.55159	0.004127	0.000851	0.000782	0.012016

0.388325	2.022136	0.004849	512.90655	0.00342	0.018419	0.017622	0.080622
17.76029	0.942328	0.001883	190.29613	0.280658	0.001557	0.001457	0.056946
1.552599	0.108872	0.004097	414.02108	0.00599	0.001334	0.001228	0.00862
0.168732	0.056189	0.003105	328.42808	0.000483	0.00518	0.004956	0.051624
1.674837	0.372171	0.015142	1530.1804	0.01228	0.001109	0.00102	0.023648
0.356905	4.284921	0.00919	972.0963	0.00329	0.102565	0.098128	0.1528
1.680934	0.418686	0.01498	1513.7532	0.011352	0.000664	0.000611	0.021712
0.506494	2.869126	0.010138	1073.0586	0.005873	0.06172	0.05905	0.16867
0.763924	0.238539	0.00719	726.55736	0.004773	0.000428	0.000394	0.016122
0.215353	5.763486	0.009747	1031.6744	0.002807	0.031683	0.030313	0.162165
0.133129	0.064964	0.008537	862.64021	0.001721	0.000724	0.000666	0.007837
0.028624	0.134628	0.007682	812.57551	0.022775	0.005031	0.004814	0.127726
23.11583	0.251688	0	1143.2924	2.62249	0.005893	0.005638	0.233068
1.2094	**0.0926**	**0.0031**	**313.6456**	**0.0055**	**0.0016**	**0.0015**	**0.0072**
0.252131	2.361124	0.01145	1211.9738	0.002655	0.052002	0.049752	0.190505
0.392824	2.164977	0.008122	859.67935	0.004316	0.092052	0.08807	0.13513
0.288578	**2.310311**	**0.010588**	**1120.7096**	**0.003085**	**0.062377**	**0.059679**	**0.17616**
1.669466	0.369168	0.016283	1645.4168	0.011495	0.001016	0.000934	0.023165
0.296787	3.966272	0.008551	904.48815	0.002668	0.130889	0.125227	0.142173
1.422191	0.406355	0.016103	1627.2561	0.010327	0.000601	0.000553	0.020984
0.389737	2.576612	0.009566	1012.5765	0.004877	0.08027	0.076798	0.159163
0.614462	0.230192	0.007729	781.04577	0.004287	0.000385	0.000354	0.015557
0.162682	5.583095	0.009101	963.2938	0.002208	0.03824	0.036586	0.151416
0.107384	0.062358	0.00918	927.68472	0.00155	0.000651	0.000599	0.007523
0.021245	0.08621	0.007323	774.67582	0.018263	0.009308	0.008905	0.121768
21.99851	0.209907	0	1064.1389	2.284701	0.0047	0.004497	0.216932
2.078382	**1.437395**	**0.01202**	**1285.7956**	**0.128863**	**0.030654**	**0.029309**	**0.073577**
0.579946	0.036436	0.002955	298.60088	0.002645	0.001371	0.001261	0.004258
0.150005	0.079252	0.002115	223.71731	0.000526	0.007522	0.007197	0.035165
1.426694	0.137789	0.003453	348.95861	0.008	0.002141	0.001969	0.01007
1.938064	1.340047	0.0042	444.31053	0.011282	0.188453	0.180301	0.069839
0.853325	0.083113	0.003692	373.08363	0.004362	0.00143	0.001315	0.006846
0.084276	0.045358	0.002819	298.21987	0.000497	0.005909	0.005653	0.046876
0.909855	0.21363	0.008218	830.43251	0.006949	0.00111	0.001021	0.013227
0.741363	3.038618	0.004709	498.08677	0.004382	0.022018	0.021066	0.078292
0.519818	0.186626	0.009413	951.22675	0.004641	0.000943	0.000867	0.012567
0.613871	2.44579	0.005035	532.6177	0.003668	0.01994	0.019078	0.08372
23.72401	1.049229	0.002222	224.53405	0.325652	0.001808	0.001693	0.063235
1.122776	0.114252	0.004576	462.39786	0.006083	0.001454	0.001337	0.008875
0.129254	0.058876	0.003861	408.43322	0.000371	0.004947	0.004733	0.0642
0.86446	**0.195046**	**0.003536**	**358.45937**	**0.005358**	**0.002367**	**0.002214**	**0.009873**

$$RESTL_{CalEEMod} = \sum_{fueltype}(RESTL_EmissionRate_i \times Population_i) / \sum_{fueltype} Trip_i$$

$$DIURN_{CalEEMod} = \sum_{fueltype}(DIURN_EmissionRate_i \times Population_i) / \sum_{fueltype} Trip_i$$

RESTL	Resting Loss Evaporative	grams/vehicle/day	grams/trip
DIURN	Diurnal Loss Evaporative	grams/vehicle/day	grams/trip

2021 Operation Mobile Source Assumptions Summary

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Vineyard III Delivery Trucks	HHDT and MHDT	7.9	21	166	1,092	8,627
Vineyard III Employees	LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite	18.5	20	370	7,300	135,050
Vineyard III Customers	LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite	10.1	4,392	44,359	1,603,080	16,191,108

Notes:

*Vineyard III delivery truck, employees/customers trip distance assumed CalEEMod default.

*Vineyard III delivery trucks assumed 21 trucks per week, but assumed 21 trucks per day as worst-case. Data provided by applicant.

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Vineyard III Delivery Trucks	HHDT and MHDT	7.9	21	166	1,092	8,627
Vineyard III Employees	LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite	18.5	20	370	7,300	135,050
Vineyard III Customers	LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite	10.1	4392	44,359	1,603,080	16,191,108

Project Vehicle	EMFAC Class	Max Daily Trips (trips/day)	Annual Trips (trips/year)
Vineyard III Delivery Trucks	HHDT and MHDT	21	1,092
Vineyard III Employees	LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite	20	7,300
Vineyard III Customers	LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite	4392	1,603,080

Project Vehicle	EMFAC Class	Idling Minutes per Day (min/day)	Idling Minutes per Year (min/year)
Vineyard III Delivery Trucks	HHDT and MHDT	315	16,380

2021 Operation Mobile Source Emissions Summary - Winter Daily Emissions

Emissions - Daily (Pounds/Day)

	ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	CO2e
	Running Exhaust, Tire Wear, and Break Wear									
Vineyard III Delivery Trucks	0.03	1.07	0.12	0.00	0.02	0.02	461.26	0.00	0.07	482.90
Vineyard III Employees	0.02	0.11	0.75	0.00	0.00	0.00	257.59	0.01	0.01	259.87
Vineyard III Customers	2.64	12.81	90.51	0.30	0.19	0.18	30,882.76	0.90	0.84	31,155.89
Subtotal	*2.69*	*13.99*	*91.39*	*0.31*	*0.22*	*0.20*	*31,601.62*	*0.91*	*0.92*	*31,898.67*

	PM10	PM2.5
	Paved Road - PM only	
Vineyard III Delivery Trucks	0.61	0.15
Vineyard III Employees	0.24	0.06
Vineyard III Customers	29.32	7.20
Subtotal	*30.18*	*7.41*

	ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	CO2e
	Starting Exhaust, Hot Soak, Running Loss Evaporative, Resting Loss Evap, Diurnal Loss Evap									
Vineyard III Delivery Trucks	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vineyard III Employees	0.01	0.01	0.11	0.00	0.00	0.00	2.57	0.00	0.00	3.02
Vineyard III Customers	2.91	2.48	23.12	0.01	0.02	0.02	565.17	0.60	0.28	663.54
Subtotal	*2.92*	*2.58*	*23.22*	*0.01*	*0.02*	*0.02*	*567.74*	*0.60*	*0.28*	*666.56*

	ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	CO2e
	Idling									
Vineyard III Delivery Trucks	0.05	1.52	0.89	0.00	0.00	0.00	200.24	0.00	0.03	209.68
Subtotal	*0.05*	*1.52*	*0.89*	*0.00*	*0.00*	*0.00*	*200.24*	*0.00*	*0.03*	*209.68*
TOTAL	**5.66**	**18.09**	**115.50**	**0.32**	**30.42**	**7.63**	**32,369.60**	**1.51**	**1.23**	**32,774.91**

2021 Operation Mobile Source Assumptions Summary

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Vineyard III Delivery Trucks	HHDT and MHDT	7.9	21	166	1,092	8,627
Vineyard III Employees	LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite	18.5	20	370	7,300	135,050
Vineyard III Customers	LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite	10.1	4,392	44,359	1,603,080	16,191,108

Notes:

*Vineyard III delivery truck, employees/customers trip distance assumed CalEEMod default.

*Vineyard III delivery trucks assumed 21 trucks per week, but assumed 21 trucks per day as worst-case. Data provided by applicant.

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Vineyard III Delivery Trucks	HHDT and MHDT	7.9	21	166	1,092	8,627
Vineyard III Employees	LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite	18.5	20	370	7,300	135,050
Vineyard III Customers	LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite	10.1	4392	44,359	1,603,080	16,191,108

Project Vehicle	EMFAC Class	Max Daily Trips (trips/day)	Annual Trips (trips/year)
Vineyard III Delivery Trucks	HHDT and MHDT	21	1,092
Vineyard III Employees	LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite	20	7,300
Vineyard III Customers	LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite	4392	1,603,080

Project Vehicle	EMFAC Class	Idling Minutes per Day (min/day)	Idling Minutes per Year (min/year)
Vineyard III Delivery Trucks	HHDT and MHDT	315	16,380

2021 Operation Mobile Source Emissions Factors - EMFAC2017 Winter

Emission Factors: Summary

Project Vehicle	Vehicle Classes	Fuel	Speed	ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O
				Running Exhaust, Tire Wear, and Break Wear (grams/mile)								
Vineyard III Delivery Trucks	HHDT and MHDT	Diesel	Aggregate	0.077	2.931	0.338	0.012	0.062	0.059	1,261.156	0.004	0.198
Vineyard III Employees/Customers	LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite	Gas, Electric, & Diesel (Aggregate)	Aggregate	0.027	0.131	0.925	0.003	0.002	0.002	315.790	0.009	0.009

Project Vehicle	Vehicle Classes	PM10	PM2.5
		Paved Road - PM Only (grams/mile)	
Vineyard III Delivery Trucks	HHDT and MHDT	1.680	0.412
Vineyard III Employees/Customers	LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite	0.300	0.074

Project Vehicle	Vehicle Classes	Fuel	ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O
			Starting Exhaust, Hot Soak, Running Loss Evaporative, Resting Loss Evap, Diurnal Loss Evap								
Vineyard III Delivery Trucks	HHDT and MHDT	Diesel	0.000	1.868	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Vineyard III Employees/Customers	LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite	Gas, Electric, & Diesel (Aggregate)	0.301	0.256	2.387	0.001	0.002	0.002	58.369	0.062	0.029

Project Vehicle	Vehicle Classes	Fuel	ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O
			Idling (grams/Idle-min/vehicle)								
Vineyard III Delivery Trucks	HHDT and MHDT	Diesel	0.079	2.195	1.281	0.003	0.000	0.007	288.343	0.004	0.045
Vineyard III Employees/Customers	LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite	Gas, Electric, & Diesel (Aggregate)	0.005889	0.028015	0.048658	0.000031	0.000307	0.000294	3.233528	0.001336	0.000341

Table 5. Operation Mobile Source Emissions Factors - EMFAC2017 Winter ROG

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	ROG_RUNEX (g/mile)	ROG_IDLEX (g/vehicle/day)	ROG_STREX (g/trip)	ROG_HOTSOAK (g/trip)	ROG_RUNLOSS (g/trip)	ROG_RESTLOSS (g/vehicle/day)	ROG_DIURN (g/vehicle/day)	ROG_RESTLOSS - Calculated (g/trip)	ROG_DIURN - Calculated (g/trip)	STEX HOTSOAK RUNLOSS ROG RESTLOSS DIURN_Combined - Calculated (g/trip)
RIVERSIDE	2021	HHDT	DSL	Aggregated	27,250.49	3,825,933.40	312,944.63	0.069391519	6.262541504	0	0	0	0	0			
RIVERSIDE	2021	MHDT	DSL	Aggregated	15,756.36	963,068.11	151,121.37	0.10899857	0.125705509	0	0	0	0	0			
						HHDT and MHDT Composite		**0.0774**	**5.0284**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	-	-	**0.0000**
RIVERSIDE	2021	LDA	GAS	Aggregated	750,300.86	29,816,029.44	3,552,291.91	0.009265033	0	0.238758111	0.112366496	0.243815418	0.219947665	0.27876214			
RIVERSIDE	2021	LDA	DSL	Aggregated	6,761.58	284,051.95	32,376.68	0.013990238	0	0	0	0	0	0			
RIVERSIDE	2021	LDA	ELEC	Aggregated	10,150.83	397,377.33	51,147.17	0	0	0	0.004888026	0	0.005191494	0.021160435			
RIVERSIDE	2021	LDT1	GAS	Aggregated	80,587.48	3,017,205.80	366,690.86	0.034097495	0	0.454656393	0.305045259	1.013615556	0.585194423	0.878617425			
RIVERSIDE	2021	LDT1	DSL	Aggregated	42.62	937.32	139.37	0.227241534	0	0	0	0	0	0			
RIVERSIDE	2021	LDT1	ELEC	Aggregated	312.67	12,704.03	1,592.30	0	0	0	0.004888026	0	0.005194742	0.021163805			
RIVERSIDE	2021	LDT2	GAS	Aggregated	246,596.51	9,631,963.54	1,154,462.90	0.016707969	0	0.347690543	0.152583013	0.513208325	0.355136812	0.416970691			
RIVERSIDE	2021	LDT2	DSL	Aggregated	1,288.99	58,422.34	6,390.04	0.014644006	0	0	0	0	0	0			
RIVERSIDE	2021	LDT2	ELEC	Aggregated	1,692.17	54,349.02	8,602.01	0	0	0	0.004888026	0	0.00514117	0.021023888			
RIVERSIDE	2021	LHDT1	GAS	Aggregated	20,885.97	692,854.05	311,169.90	0.030224053	0.45664908	0.139598164	0.164527459	0.964451216	0.038115488	0.076124228			
RIVERSIDE	2021	LHDT1	DSL	Aggregated	19,999.78	695,951.65	251,572.05	0.091595351	0.109759705	0	0	0	0	0			
RIVERSIDE	2021	LHDT2	GAS	Aggregated	3,292.65	108,726.45	49,055.53	0.019084681	0.458215314	0.132370481	0.138161559	0.791092685	0.030979806	0.05876399			
RIVERSIDE	2021	LHDT2	DSL	Aggregated	7,676.54	267,713.75	96,561.22	0.078330325	0.109759705	0	0	0	0	0			
RIVERSIDE	2021	MCY	GAS	Aggregated	35,659.72	267,522.39	71,319.43	2.151925817	0	1.830859739	1.036012638	2.119849508	1.467504607	3.174079297			
RIVERSIDE	2021	MDV	GAS	Aggregated	208,791.37	7,677,992.85	957,457.85	0.024942611	0	0.468045462	0.184612467	0.582006384	0.447828817	0.488862257			
RIVERSIDE	2021	MDV	DSL	Aggregated	3,985.67	171,354.65	19,488.50	0.011055038	0	0	0	0	0	0			
RIVERSIDE	2021	MDV	ELEC	Aggregated	787.11	25,973.70	4,035.65	0	0	0	0.004888026	0	0.005169793	0.0210934			
RIVERSIDE	2021	MH	GAS	Aggregated	6,261.09	50,694.81	626.36	0.057082465	0	0.137160747	0.116438153	2.190524288	0.061004486	0.182011949			
RIVERSIDE	2021	MH	DSL	Aggregated	2,593.42	21,461.99	259.34	0.071834435	0	0	0	0	0	0			
RIVERSIDE	2021	OBUS	GAS	Aggregated	589.48	27,261.01	11,794.32	0.051875454	0.745348379	0.161116418	0.032146161	0.35130242	0.027222989	0.061081927			
RIVERSIDE	2021	OBUS	DSL	Aggregated	347.99	24,855.13	3,314.36	0.121553962	1.08647226	0	0	0	0	0			
RIVERSIDE	2021	SBUS	GAS	Aggregated	475.47	19,228.88	1,901.89	0.03921697	10.6396621	0.326162934	0.069471431	0.509024786	0.018984485	0.036117989			
RIVERSIDE	2021	SBUS	DSL	Aggregated	1,131.96	35,858.76	13,062.61	0.125658958	0.287721976	0	0	0	0	0			
RIVERSIDE	2021	UBUS	GAS	Aggregated	163.48	23,017.82	653.94	0.011521507	0	0.213845933	0.032606728	0.159950623	0.008786626	0.014685886			
RIVERSIDE	2021	UBUS	DSL	Aggregated	1.11	58.57	4.42	0.000534846	0	0	0	0	0	0			
RIVERSIDE	2021	UBUS	ELEC	Aggregated	5.06	271.53	20.23	0	0	0	0	0	0	0			
RIVERSIDE	2021	UBUS	NG	Aggregated	306.62	41,979.73	1,226.49	0.077260262	0	0	0	0	0	0			
						LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite		**0.0269**	**0.0137**	**0.3005**	**0.1418**	**0.3967**	**0.2922**	**0.3680**	**0.064153**	**0.086303**	**0.9895**

EMFAC2017 (v1.0.2) Emission Rates
Region Type: County
Region: RIVERSIDE
Calendar Year: 2021
Season: Winter
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN
Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day
OBUS	5.9	min/day

Table 6. Operation Mobile Source Emissions Factors - EMFAC2017 Winter TOG

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	TOG_RUNEX (g/mile)	TOG_IDLEX (g/vehicle/day)	TOG_STREX (g/trip)	TOG_HOTSOAK (g/trip)	TOG_RUNLOSS (g/trip)	TOG_RESTLOSS (g/vehicle/day)	TOG_DIURN (g/vehicle/day)	TOG_RESTLOSS - Calculated (g/trip)	TOG_DIURN - Calculated (g/trip)	STEX HOTSOAK RUNLOSS TOG RESTLOSS DIURN_Combined - Calculated (g/trip)
RIVERSIDE	2021	HHDT	DSL	Aggregated	27,250.49	3,825,933.40	312,944.63	0.078996962	7.12942679	0	0	0	0	0			
RIVERSIDE	2021	MHDT	DSL	Aggregated	15,756.36	963,068.11	151,121.37	0.124086575	0.143106154	0	0	0	0	0			
						HHDT and MHDT Composite		**0.0881**	**5.7245**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	-	-	**0.0000**
RIVERSIDE	2021	LDA	GAS	Aggregated	750,300.86	29,816,029.44	3,552,291.91	0.013510784	0	0.261408574	0.112366496	0.243815418	0.219947665	0.27876214			
RIVERSIDE	2021	LDA	DSL	Aggregated	6,761.58	284,051.95	32,376.68	0.015926956	0	0	0	0	0	0			
RIVERSIDE	2021	LDA	ELEC	Aggregated	10,150.83	397,377.33	51,147.17	0	0	0	0.004888026	0	0.005191494	0.021160435			
RIVERSIDE	2021	LDT1	GAS	Aggregated	80,587.48	3,017,205.80	366,690.86	0.049715593	0	0.497788544	0.305045259	1.013615556	0.585194423	0.878617425			
RIVERSIDE	2021	LDT1	DSL	Aggregated	42.62	937.32	139.37	0.258699378	0	0	0	0	0	0			
RIVERSIDE	2021	LDT1	ELEC	Aggregated	312.67	12,704.03	1,592.30	0	0	0	0.004888026	0	0.005194742	0.021163805			
RIVERSIDE	2021	LDT2	GAS	Aggregated	246,596.51	9,631,963.54	1,154,462.90	0.024363596	0	0.38067611	0.152583013	0.513208325	0.355136812	0.416970691			
RIVERSIDE	2021	LDT2	DSL	Aggregated	1,288.99	58,422.34	6,390.04	0.016671227	0	0	0	0	0	0			
RIVERSIDE	2021	LDT2	ELEC	Aggregated	1,692.17	54,349.02	8,602.01	0	0	0	0.004888026	0	0.00514117	0.021023888			
RIVERSIDE	2021	LHDT1	GAS	Aggregated	20,885.97	692,854.05	311,169.90	0.044102867	0.666341266	0.152842418	0.164527459	0.964451216	0.038115488	0.076124228			
RIVERSIDE	2021	LHDT1	DSL	Aggregated	19,999.78	695,951.65	251,572.05	0.104275217	0.124954127	0	0	0	0	0			
RIVERSIDE	2021	LHDT2	GAS	Aggregated	3,292.65	108,726.45	49,055.53	0.027848322	0.66862671	0.144929015	0.138161559	0.791092685	0.030979806	0.05876399			
RIVERSIDE	2021	LHDT2	DSL	Aggregated	7,676.54	267,713.75	96,561.22	0.089173867	0.124954127	0	0	0	0	0			
RIVERSIDE	2021	MCY	GAS	Aggregated	35,659.72	267,522.39	71,319.43	2.646603343	0	1.992230441	1.036012638	2.119849508	1.467504607	3.174079297			
RIVERSIDE	2021	MDV	GAS	Aggregated	208,791.37	7,677,992.85	957,457.85	0.035324527	0	0.512409554	0.184612467	0.582006384	0.447828817	0.488862257			
RIVERSIDE	2021	MDV	DSL	Aggregated	3,985.67	171,354.65	19,488.50	0.012585426	0	0	0	0	0	0			
RIVERSIDE	2021	MDV	ELEC	Aggregated	787.11	25,973.70	4,035.65	0	0	0	0.004888026	0	0.005169793	0.0210934			
RIVERSIDE	2021	MH	GAS	Aggregated	6,261.09	50,694.81	626.36	0.083294599	0	0.150173753	0.116438153	2.190524288	0.061004486	0.182011949			
RIVERSIDE	2021	MH	DSL	Aggregated	2,593.42	21,461.99	259.34	0.081778728	0	0	0	0	0	0			
RIVERSIDE	2021	OBUS	GAS	Aggregated	589.48	27,261.01	11,794.32	0.075696541	1.087610606	0.176402197	0.032146161	0.35130242	0.027222989	0.061081927			
RIVERSIDE	2021	OBUS	DSL	Aggregated	347.99	24,855.13	3,314.36	0.138379933	1.236865964	0	0	0	0	0			
RIVERSIDE	2021	SBUS	GAS	Aggregated	475.47	19,228.88	1,901.89	0.05722531	15.52536996	0.357107358	0.069471431	0.509024786	0.018984485	0.036117989			
RIVERSIDE	2021	SBUS	DSL	Aggregated	1,131.96	35,858.76	13,062.61	0.143053159	0.327549568	0	0	0	0	0			
RIVERSIDE	2021	UBUS	GAS	Aggregated	163.48	23,017.82	653.94	0.016812156	0	0.234134379	0.032606728	0.159950623	0.008786626	0.014685886			
RIVERSIDE	2021	UBUS	DSL	Aggregated	1.11	58.57	4.42	0.03820325	0	0	0	0	0	0			
RIVERSIDE	2021	UBUS	ELEC	Aggregated	5.06	271.53	20.23	0	0	0	0	0	0	0			
RIVERSIDE	2021	UBUS	NG	Aggregated	306.62	41,979.73	1,226.49	5.321263218	0	0	0	0	0	0			
						LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite		**0.0402**	**0.0192**	**0.3290**	**0.1418**	**0.3967**	**0.2922**	**0.3680**	**0.064153**	**0.086303**	**1.0180**

EMFAC2017 (v1.0.2) Emission Rates
Region Type: County
Region: RIVERSIDE
Calendar Year: 2021
Season: Winter
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN
Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day
OBUS	5.9	min/day

Table 7. Operation Mobile Source Emissions Factors - EMFAC2017 Winter NOx

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	NOx_RUNEX (g/mile)	NOx_IDLEX (g/vehicle/day)	NOx_STREX (g/trip)
RIVERSIDE	2021	HHDT	DSL	Aggregated	27,250.49	3,825,933.40	312,944.63	3.029273423	88.20101427	1.995305353
RIVERSIDE	2021	MHDT	DSL	Aggregated	15,756.36	963,068.11	151,121.37	2.540961246	8.136000462	1.360943231
						HHDT and MHDT Composite		**2.9311**	**72.0999**	**1.8677**
RIVERSIDE	2021	LDA	GAS	Aggregated	750,300.86	29,816,029.44	3,552,291.91	0.038354589	0	0.192878589
RIVERSIDE	2021	LDA	DSL	Aggregated	6,761.58	284,051.95	32,376.68	0.079350041	0	0
RIVERSIDE	2021	LDA	ELEC	Aggregated	10,150.83	397,377.33	51,147.17	0	0	0
RIVERSIDE	2021	LDT1	GAS	Aggregated	80,587.48	3,017,205.80	366,690.86	0.139777072	0	0.30807256
RIVERSIDE	2021	LDT1	DSL	Aggregated	42.62	937.32	139.37	1.236931165	0	0
RIVERSIDE	2021	LDT1	ELEC	Aggregated	312.67	12,704.03	1,592.30	0	0	0
RIVERSIDE	2021	LDT2	GAS	Aggregated	246,596.51	9,631,963.54	1,154,462.90	0.086932456	0	0.312510537
RIVERSIDE	2021	LDT2	DSL	Aggregated	1,288.99	58,422.34	6,390.04	0.048608133	0	0
RIVERSIDE	2021	LDT2	ELEC	Aggregated	1,692.17	54,349.02	8,602.01	0	0	0
RIVERSIDE	2021	LHDT1	GAS	Aggregated	20,885.97	692,854.05	311,169.90	0.227771662	0.039862667	0.558266203
RIVERSIDE	2021	LHDT1	DSL	Aggregated	19,999.78	695,951.65	251,572.05	2.937036035	2.32175026	0
RIVERSIDE	2021	LHDT2	GAS	Aggregated	3,292.65	108,726.45	49,055.53	0.205108928	0.039962831	0.568727738
RIVERSIDE	2021	LHDT2	DSL	Aggregated	7,676.54	267,713.75	96,561.22	2.383236162	2.321112538	0
RIVERSIDE	2021	MCY	GAS	Aggregated	35,659.72	267,522.39	71,319.43	1.120626467	0	0.261730958
RIVERSIDE	2021	MDV	GAS	Aggregated	208,791.37	7,677,992.85	957,457.85	0.118153705	0	0.402139202
RIVERSIDE	2021	MDV	DSL	Aggregated	3,985.67	171,354.65	19,488.50	0.060385005	0	0
RIVERSIDE	2021	MDV	ELEC	Aggregated	787.11	25,973.70	4,035.65	0	0	0
RIVERSIDE	2021	MH	GAS	Aggregated	6,261.09	50,694.81	626.36	0.434974059	0	0.324445093
RIVERSIDE	2021	MH	DSL	Aggregated	2,593.42	21,461.99	259.34	4.380701246	0	0
RIVERSIDE	2021	OBUS	GAS	Aggregated	589.48	27,261.01	11,794.32	0.451714124	0.064999573	0.321862671
RIVERSIDE	2021	OBUS	DSL	Aggregated	347.99	24,855.13	3,314.36	3.037461953	19.1841274	1.543663927
RIVERSIDE	2021	SBUS	GAS	Aggregated	475.47	19,228.88	1,901.89	0.310005783	0.926404313	0.571988218
RIVERSIDE	2021	SBUS	DSL	Aggregated	1,131.96	35,858.76	13,062.61	7.173024939	45.09916624	0.714016556
RIVERSIDE	2021	UBUS	GAS	Aggregated	163.48	23,017.82	653.94	0.13069372	0	0.527683417
RIVERSIDE	2021	UBUS	DSL	Aggregated	1.11	58.57	4.42	0.47742212	0	0
RIVERSIDE	2021	UBUS	ELEC	Aggregated	5.06	271.53	20.23	0	0	0
RIVERSIDE	2021	UBUS	NG	Aggregated	306.62	41,979.73	1,226.49	0.416626477	0	0
						LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite		**0.1310**	**0.0875**	**0.2561**

Table 8. Operation Mobile Source Emissions Factors - EMFAC2017 Winter CO

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	CO_RUNEX (g/mile)	CO_IDLEX (g/vehicle/day)	CO_STREX (g/trip)
RIVERSIDE	2021	HHDT	DSL	Aggregated	27,250.49	3,825,933.40	312,944.63	0.315149187	89.42797578	0
RIVERSIDE	2021	MHDT	DSL	Aggregated	15,756.36	963,068.11	151,121.37	0.428592321	2.719000443	0
							HHDT and MHDT Composite	**0.3380**	**71.9908**	**0.0000**
RIVERSIDE	2021	LDA	GAS	Aggregated	750,300.86	29,816,029.44	3,552,291.91	0.632177347	0	2.216814189
RIVERSIDE	2021	LDA	DSL	Aggregated	6,761.58	284,051.95	32,376.68	0.189719211	0	0
RIVERSIDE	2021	LDA	ELEC	Aggregated	10,150.83	397,377.33	51,147.17	0	0	0
RIVERSIDE	2021	LDT1	GAS	Aggregated	80,587.48	3,017,205.80	366,690.86	1.520594862	0	2.495916671
RIVERSIDE	2021	LDT1	DSL	Aggregated	42.62	937.32	139.37	1.392250777	0	0
RIVERSIDE	2021	LDT1	ELEC	Aggregated	312.67	12,704.03	1,592.30	0	0	0
RIVERSIDE	2021	LDT2	GAS	Aggregated	246,596.51	9,631,963.54	1,154,462.90	0.924648699	0	2.838533329
RIVERSIDE	2021	LDT2	DSL	Aggregated	1,288.99	58,422.34	6,390.04	0.113342345	0	0
RIVERSIDE	2021	LDT2	ELEC	Aggregated	1,692.17	54,349.02	8,602.01	0	0	0
RIVERSIDE	2021	LHDT1	GAS	Aggregated	20,885.97	692,854.05	311,169.90	0.812315827	3.750864443	1.742037896
RIVERSIDE	2021	LHDT1	DSL	Aggregated	19,999.78	695,951.65	251,572.05	0.631982506	0.909745076	0
RIVERSIDE	2021	LHDT2	GAS	Aggregated	3,292.65	108,726.45	49,055.53	0.512948817	3.761022038	1.671353031
RIVERSIDE	2021	LHDT2	DSL	Aggregated	7,676.54	267,713.75	96,561.22	0.53222324	0.909745076	0
RIVERSIDE	2021	MCY	GAS	Aggregated	35,659.72	267,522.39	71,319.43	19.13557147	0	8.488764409
RIVERSIDE	2021	MDV	GAS	Aggregated	208,791.37	7,677,992.85	957,457.85	1.147363859	0	3.423177204
RIVERSIDE	2021	MDV	DSL	Aggregated	3,985.67	171,354.65	19,488.50	0.180662093	0	0
RIVERSIDE	2021	MDV	ELEC	Aggregated	787.11	25,973.70	4,035.65	0	0	0
RIVERSIDE	2021	MH	GAS	Aggregated	6,261.09	50,694.81	626.36	1.813920786	0	2.978523127
RIVERSIDE	2021	MH	DSL	Aggregated	2,593.42	21,461.99	259.34	0.338926164	0	0
RIVERSIDE	2021	OBUS	GAS	Aggregated	589.48	27,261.01	11,794.32	1.356799726	5.769076586	3.334326226
RIVERSIDE	2021	OBUS	DSL	Aggregated	347.99	24,855.13	3,314.36	0.446632891	13.14536895	0
RIVERSIDE	2021	SBUS	GAS	Aggregated	475.47	19,228.88	1,901.89	0.865711255	82.22963641	7.716407455
RIVERSIDE	2021	SBUS	DSL	Aggregated	1,131.96	35,858.76	13,062.61	0.345841154	6.267625484	0
RIVERSIDE	2021	UBUS	GAS	Aggregated	163.48	23,017.82	653.94	0.192457395	0	4.34458896
RIVERSIDE	2021	UBUS	DSL	Aggregated	1.11	58.57	4.42	0.05712856	0	0
RIVERSIDE	2021	UBUS	ELEC	Aggregated	5.06	271.53	20.23	0	0	0
RIVERSIDE	2021	UBUS	NG	Aggregated	306.62	41,979.73	1,226.49	40.43881597	0	0
							LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite	**0.9255**	**0.1206**	**2.3873**

Table 9. Operation Mobile Source Emissions Factors - EMFAC2017 Winter SO2

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	SO2_RUNEX (g/mile)	SO2_IDLEX (g/vehicle/day)	SO2_STREX (g/trip)
RIVERSIDE	2021	HHDT	DSL	Aggregated	27,250.49	3,825,933.40	312,944.63	0.012699034	0.154088737	0
RIVERSIDE	2021	MHDT	DSL	Aggregated	15,756.36	963,068.11	151,121.37	0.008799184	0.007709608	0
						HHDT and MHDT Composite		**0.0119**	**0.1247**	**0.0000**
RIVERSIDE	2021	LDA	GAS	Aggregated	750,300.86	29,816,029.44	3,552,291.91	0.00260746	0	0.000555246
RIVERSIDE	2021	LDA	DSL	Aggregated	6,761.58	284,051.95	32,376.68	0.001891571	0	0
RIVERSIDE	2021	LDA	ELEC	Aggregated	10,150.83	397,377.33	51,147.17	0	0	0
RIVERSIDE	2021	LDT1	GAS	Aggregated	80,587.48	3,017,205.80	366,690.86	0.003075252	0	0.000663884
RIVERSIDE	2021	LDT1	DSL	Aggregated	42.62	937.32	139.37	0.003763271	0	0
RIVERSIDE	2021	LDT1	ELEC	Aggregated	312.67	12,704.03	1,592.30	0	0	0
RIVERSIDE	2021	LDT2	GAS	Aggregated	246,596.51	9,631,963.54	1,154,462.90	0.003302665	0	0.000718202
RIVERSIDE	2021	LDT2	DSL	Aggregated	1,288.99	58,422.34	6,390.04	0.002539802	0	0
RIVERSIDE	2021	LDT2	ELEC	Aggregated	1,692.17	54,349.02	8,602.01	0	0	0
RIVERSIDE	2021	LHDT1	GAS	Aggregated	20,885.97	692,854.05	311,169.90	0.007859191	0.001212097	0.000188636
RIVERSIDE	2021	LHDT1	DSL	Aggregated	19,999.78	695,951.65	251,572.05	0.004598077	0.001301516	0
RIVERSIDE	2021	LHDT2	GAS	Aggregated	3,292.65	108,726.45	49,055.53	0.009006956	0.001397857	0.000214472
RIVERSIDE	2021	LHDT2	DSL	Aggregated	7,676.54	267,713.75	96,561.22	0.00499739	0.002091665	0
RIVERSIDE	2021	MCY	GAS	Aggregated	35,659.72	267,522.39	71,319.43	0.002053556	0	0.000600065
RIVERSIDE	2021	MDV	GAS	Aggregated	208,791.37	7,677,992.85	957,457.85	0.004120179	0	0.000901138
RIVERSIDE	2021	MDV	DSL	Aggregated	3,985.67	171,354.65	19,488.50	0.003439686	0	0
RIVERSIDE	2021	MDV	ELEC	Aggregated	787.11	25,973.70	4,035.65	0	0	0
RIVERSIDE	2021	MH	GAS	Aggregated	6,261.09	50,694.81	626.36	0.016661462	0	0.0002607
RIVERSIDE	2021	MH	DSL	Aggregated	2,593.42	21,461.99	259.34	0.008903009	0	0
RIVERSIDE	2021	OBUS	GAS	Aggregated	589.48	27,261.01	11,794.32	0.016555245	0.003784506	0.00026499
RIVERSIDE	2021	OBUS	DSL	Aggregated	347.99	24,855.13	3,314.36	0.010541024	0.023640794	0
RIVERSIDE	2021	SBUS	GAS	Aggregated	475.47	19,228.88	1,901.89	0.008815976	0.026319934	0.000477894
RIVERSIDE	2021	SBUS	DSL	Aggregated	1,131.96	35,858.76	13,062.61	0.011673226	0.033503555	0
RIVERSIDE	2021	UBUS	GAS	Aggregated	163.48	23,017.82	653.94	0.0137908	0	0.000520625
RIVERSIDE	2021	UBUS	DSL	Aggregated	1.11	58.57	4.42	0.010787911	0	0
RIVERSIDE	2021	UBUS	ELEC	Aggregated	5.06	271.53	20.23	0	0	0
RIVERSIDE	2021	UBUS	NG	Aggregated	306.62	41,979.73	1,226.49	0	0	0
						LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite		**0.0031**	**0.0001**	**0.0006**

Table 10. Operation Mobile Source Emissions Factors - EMFAC2017 Winter PM10

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	PM10_RUNEX (g/mile)	PM10_IDLEX (g/vehicle/day)	PM10_STREX (g/trip)	PM10_PMTW (g/mile)	PM10_PMBW (g/mile)	PM10_Combined - Calculated (g/mile)
RIVERSIDE	2021	HHDT	DSL	Aggregated	27,250.49	3,825,933.40	312,944.63	0.054452552	0.131632176	0	0.035593372	0.061042633	
RIVERSIDE	2021	MHDT	DSL	Aggregated	15,756.36	963,068.11	151,121.37	0.090642513	0.035507073	0	0.012000003	0.130340037	
						HHDT and MHDT Composite		**0.0617**	**0.1123**	**0.0000**	**0.0308**	**0.0750**	**0.167557**
RIVERSIDE	2021	LDA	GAS	Aggregated	750,300.86	29,816,029.44	3,552,291.91	0.001407186	0	0.001964077	0.008000002	0.036750011	
RIVERSIDE	2021	LDA	DSL	Aggregated	6,761.58	284,051.95	32,376.68	0.007645761	0	0	0.008000002	0.036750011	
RIVERSIDE	2021	LDA	ELEC	Aggregated	10,150.83	397,377.33	51,147.17	0	0	0	0.008000002	0.036750011	
RIVERSIDE	2021	LDT1	GAS	Aggregated	80,587.48	3,017,205.80	366,690.86	0.002249763	0	0.002965001	0.008000002	0.036750011	
RIVERSIDE	2021	LDT1	DSL	Aggregated	42.62	937.32	139.37	0.174163625	0	0	0.008000002	0.036750011	
RIVERSIDE	2021	LDT1	ELEC	Aggregated	312.67	12,704.03	1,592.30	0	0	0	0.008000002	0.036750011	
RIVERSIDE	2021	LDT2	GAS	Aggregated	246,596.51	9,631,963.54	1,154,462.90	0.001479348	0	0.001983814	0.008000002	0.036750011	
RIVERSIDE	2021	LDT2	DSL	Aggregated	1,288.99	58,422.34	6,390.04	0.006020956	0	0	0.008000002	0.036750011	
RIVERSIDE	2021	LDT2	ELEC	Aggregated	1,692.17	54,349.02	8,602.01	0	0	0	0.008000002	0.036750011	
RIVERSIDE	2021	LHDT1	GAS	Aggregated	20,885.97	692,854.05	311,169.90	0.001074259	0	0.000420534	0.008000002	0.076440022	
RIVERSIDE	2021	LHDT1	DSL	Aggregated	19,999.78	695,951.65	251,572.05	0.02102497	0.027286864	0	0.012000003	0.076440022	
RIVERSIDE	2021	LHDT2	GAS	Aggregated	3,292.65	108,726.45	49,055.53	0.000915661	0	0.000339466	0.008000002	0.089180026	
RIVERSIDE	2021	LHDT2	DSL	Aggregated	7,676.54	267,713.75	96,561.22	0.019395893	0.027303987	0	0.012000003	0.089180026	
RIVERSIDE	2021	MCY	GAS	Aggregated	35,659.72	267,522.39	71,319.43	0.001757318	0	0.002866434	0.004000001	0.011760003	
RIVERSIDE	2021	MDV	GAS	Aggregated	208,791.37	7,677,992.85	957,457.85	0.001495188	0	0.002105384	0.008000002	0.036750011	
RIVERSIDE	2021	MDV	DSL	Aggregated	3,985.67	171,354.65	19,488.50	0.005282657	0	0	0.008000002	0.036750011	
RIVERSIDE	2021	MDV	ELEC	Aggregated	787.11	25,973.70	4,035.65	0	0	0	0.008000002	0.036750011	
RIVERSIDE	2021	MH	GAS	Aggregated	6,261.09	50,694.81	626.36	0.001208637	0	0.000354272	0.012000003	0.130340037	
RIVERSIDE	2021	MH	DSL	Aggregated	2,593.42	21,461.99	259.34	0.144090167	0	0	0.016000005	0.130340037	
RIVERSIDE	2021	OBUS	GAS	Aggregated	589.48	27,261.01	11,794.32	0.000689727	0	0.000242813	0.012000003	0.130340037	
RIVERSIDE	2021	OBUS	DSL	Aggregated	347.99	24,855.13	3,314.36	0.080687755	0.093589148	0	0.012000003	0.130340037	
RIVERSIDE	2021	SBUS	GAS	Aggregated	475.47	19,228.88	1,901.89	0.000741736	0	0.0003123	0.008000002	0.744800204	
RIVERSIDE	2021	SBUS	DSL	Aggregated	1,131.96	35,858.76	13,062.61	0.044060934	0.065278787	0	0.012000003	0.744800213	
RIVERSIDE	2021	UBUS	GAS	Aggregated	163.48	23,017.82	653.94	0.001140864	0	0.000470171	0.009546243	0.105090841	
RIVERSIDE	2021	UBUS	DSL	Aggregated	1.11	58.57	4.42	0.004292743	0	0	0.012000007	0.130340079	
RIVERSIDE	2021	UBUS	ELEC	Aggregated	5.06	271.53	20.23	0	0	0	0.035889386	0.06205627	
RIVERSIDE	2021	UBUS	NG	Aggregated	306.62	41,979.73	1,226.49	0.003934649	0	0	0.028616727	0.078554835	
						LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite		**0.0020**	**0.0006**	**0.0018**	**0.0081**	**0.0390**	**0.049106**

Table 11. Operation Mobile Source Emissions Factors - EMFAC2017 Winter PM2.5

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	PM2.5_RUNEX (g/mile)	PM2.5_IDLEX (g/vehicle/day)	PM2.5_STREX (g/trip)	PM2.5_PMTW (g/mile)	PM2.5_PMBW (g/mile)	PM2.5_Combined - Calculated (g/mile)
RIVERSIDE	2021	HHDT	DSL	Aggregated	27,250.49	3,825,933.40	312,944.63	0.052096959	0.125937827	0	0.008898343	0.026161128	
RIVERSIDE	2021	MHDT	DSL	Aggregated	15,756.36	963,068.11	151,121.37	0.086721358	0.033971053	0	0.003000001	0.055860016	
						HHDT and MHDT Composite		**0.0591**	**0.1074**	**0.0000**	**0.0077**	**0.0321**	**0.098906**
RIVERSIDE	2021	LDA	GAS	Aggregated	750,300.86	29,816,029.44	3,552,291.91	0.001293882	0	0.001805983	0.002000001	0.015750005	
RIVERSIDE	2021	LDA	DSL	Aggregated	6,761.58	284,051.95	32,376.68	0.007315009	0	0	0.002000001	0.015750005	
RIVERSIDE	2021	LDA	ELEC	Aggregated	10,150.83	397,377.33	51,147.17	0	0	0	0.002000001	0.015750005	
RIVERSIDE	2021	LDT1	GAS	Aggregated	80,587.48	3,017,205.80	366,690.86	0.002068731	0	0.002726449	0.002000001	0.015750005	
RIVERSIDE	2021	LDT1	DSL	Aggregated	42.62	937.32	139.37	0.166629383	0	0	0.002000001	0.015750005	
RIVERSIDE	2021	LDT1	ELEC	Aggregated	312.67	12,704.03	1,592.30	0	0	0	0.002000001	0.015750005	
RIVERSIDE	2021	LDT2	GAS	Aggregated	246,596.51	9,631,963.54	1,154,462.90	0.001360267	0	0.001824137	0.002000001	0.015750005	
RIVERSIDE	2021	LDT2	DSL	Aggregated	1,288.99	58,422.34	6,390.04	0.005760492	0	0	0.002000001	0.015750005	
RIVERSIDE	2021	LDT2	ELEC	Aggregated	1,692.17	54,349.02	8,602.01	0	0	0	0.002000001	0.015750005	
RIVERSIDE	2021	LHDT1	GAS	Aggregated	20,885.97	692,854.05	311,169.90	0.000987741	0	0.000386665	0.002000001	0.032760009	
RIVERSIDE	2021	LHDT1	DSL	Aggregated	19,999.78	695,951.65	251,572.05	0.020115439	0.026106446	0	0.003000001	0.032760009	
RIVERSIDE	2021	LHDT2	GAS	Aggregated	3,292.65	108,726.45	49,055.53	0.000841916	0	0.000312126	0.002000001	0.038220011	
RIVERSIDE	2021	LHDT2	DSL	Aggregated	7,676.54	267,713.75	96,561.22	0.018556835	0.026122829	0	0.003000001	0.038220011	
RIVERSIDE	2021	MCY	GAS	Aggregated	35,659.72	267,522.39	71,319.43	0.001644228	0	0.002699911	0.001	0.005040001	
RIVERSIDE	2021	MDV	GAS	Aggregated	208,791.37	7,677,992.85	957,457.85	0.001375619	0	0.001937165	0.002000001	0.015750005	
RIVERSIDE	2021	MDV	DSL	Aggregated	3,985.67	171,354.65	19,488.50	0.005054132	0	0	0.002000001	0.015750005	
RIVERSIDE	2021	MDV	ELEC	Aggregated	787.11	25,973.70	4,035.65	0	0	0	0.002000001	0.015750005	
RIVERSIDE	2021	MH	GAS	Aggregated	6,261.09	50,694.81	626.36	0.001111297	0	0.00032574	0.003000001	0.055860016	
RIVERSIDE	2021	MH	DSL	Aggregated	2,593.42	21,461.99	259.34	0.13785689	0	0	0.004000001	0.055860016	
RIVERSIDE	2021	OBUS	GAS	Aggregated	589.48	27,261.01	11,794.32	0.000634178	0	0.000223258	0.003000001	0.055860016	
RIVERSIDE	2021	OBUS	DSL	Aggregated	347.99	24,855.13	3,314.36	0.077197238	0.089540522	0	0.003000001	0.055860016	
RIVERSIDE	2021	SBUS	GAS	Aggregated	475.47	19,228.88	1,901.89	0.000681999	0	0.000287148	0.002000001	0.319200087	
RIVERSIDE	2021	SBUS	DSL	Aggregated	1,131.96	35,858.76	13,062.61	0.042154878	0.062454855	0	0.003000001	0.319200091	
RIVERSIDE	2021	UBUS	GAS	Aggregated	163.48	23,017.82	653.94	0.001048982	0	0.000432305	0.002386561	0.045038932	
RIVERSIDE	2021	UBUS	DSL	Aggregated	1.11	58.57	4.42	0.004107041	0	0	0.003000002	0.055860034	
RIVERSIDE	2021	UBUS	ELEC	Aggregated	5.06	271.53	20.23	0	0	0	0.008972347	0.026595544	
RIVERSIDE	2021	UBUS	NG	Aggregated	306.62	41,979.73	1,226.49	0.003764438	0	0	0.007154182	0.033666358	
						LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite		**0.0018**	**0.0006**	**0.0017**	**0.0020**	**0.0167**	**0.020600**

Table 12. Operation Mobile Source Emissions Factors - EMFAC2017 Winter CO2

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	CO2_RUNEX (g/mile)	CO2_IDLEX (g/vehicle/day)	CO2_STREX (g/trip)
RIVERSIDE	2021	HHDT	DSL	Aggregated	27,250.49	3,825,933.40	312,944.63	1344.168147	16309.99407	0
RIVERSIDE	2021	MHDT	DSL	Aggregated	15,756.36	963,068.11	151,121.37	931.376529	816.0470404	0
						HHDT and MHDT Composite		**1261.1558**	**13194.1616**	**0.0000**
RIVERSIDE	2021	LDA	GAS	Aggregated	750,300.86	29,816,029.44	3,552,291.91	263.4913091	0	56.10919215
RIVERSIDE	2021	LDA	DSL	Aggregated	6,761.58	284,051.95	32,376.68	200.0901118	0	0
RIVERSIDE	2021	LDA	ELEC	Aggregated	10,150.83	397,377.33	51,147.17	0	0	0
RIVERSIDE	2021	LDT1	GAS	Aggregated	80,587.48	3,017,205.80	366,690.86	310.7629966	0	67.08737605
RIVERSIDE	2021	LDT1	DSL	Aggregated	42.62	937.32	139.37	398.0782468	0	0
RIVERSIDE	2021	LDT1	ELEC	Aggregated	312.67	12,704.03	1,592.30	0	0	0
RIVERSIDE	2021	LDT2	GAS	Aggregated	246,596.51	9,631,963.54	1,154,462.90	333.743744	0	72.5763948
RIVERSIDE	2021	LDT2	DSL	Aggregated	1,288.99	58,422.34	6,390.04	268.6598839	0	0
RIVERSIDE	2021	LDT2	ELEC	Aggregated	1,692.17	54,349.02	8,602.01	0	0	0
RIVERSIDE	2021	LHDT1	GAS	Aggregated	20,885.97	692,854.05	311,169.90	794.1937739	122.4858556	19.06224398
RIVERSIDE	2021	LHDT1	DSL	Aggregated	19,999.78	695,951.65	251,572.05	486.3839212	137.6741944	0
RIVERSIDE	2021	LHDT2	GAS	Aggregated	3,292.65	108,726.45	49,055.53	910.178663	141.2574218	21.67296147
RIVERSIDE	2021	LHDT2	DSL	Aggregated	7,676.54	267,713.75	96,561.22	528.6231579	221.2560171	0
RIVERSIDE	2021	MCY	GAS	Aggregated	35,659.72	267,522.39	71,319.43	207.5176756	0	60.63825555
RIVERSIDE	2021	MDV	GAS	Aggregated	208,791.37	7,677,992.85	957,457.85	416.3558765	0	91.06256877
RIVERSIDE	2021	MDV	DSL	Aggregated	3,985.67	171,354.65	19,488.50	363.8495244	0	0
RIVERSIDE	2021	MDV	ELEC	Aggregated	787.11	25,973.70	4,035.65	0	0	0
RIVERSIDE	2021	MH	GAS	Aggregated	6,261.09	50,694.81	626.36	1683.688486	0	26.34451604
RIVERSIDE	2021	MH	DSL	Aggregated	2,593.42	21,461.99	259.34	941.7589447	0	0
RIVERSIDE	2021	OBUS	GAS	Aggregated	589.48	27,261.01	11,794.32	1672.954931	382.4351647	26.77804116
RIVERSIDE	2021	OBUS	DSL	Aggregated	347.99	24,855.13	3,314.36	1115.746917	2502.332206	0
RIVERSIDE	2021	SBUS	GAS	Aggregated	475.47	19,228.88	1,901.89	890.8796055	2659.70473	48.29251935
RIVERSIDE	2021	SBUS	DSL	Aggregated	1,131.96	35,858.76	13,062.61	1235.588303	3546.286309	0
RIVERSIDE	2021	UBUS	GAS	Aggregated	163.48	23,017.82	653.94	1393.599824	0	52.6106043
RIVERSIDE	2021	UBUS	DSL	Aggregated	1.11	58.57	4.42	1141.143654	0	0
RIVERSIDE	2021	UBUS	ELEC	Aggregated	5.06	271.53	20.23	0	0	0
RIVERSIDE	2021	UBUS	NG	Aggregated	306.62	41,979.73	1,226.49	1751.725881	0	0
						LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite		**315.7896**	**9.8182**	**58.3691**

EMFAC2017 (v1.0.2) Emission Rates
Region Type: County
Region: RIVERSIDE
Calendar Year: 2021
Season: Winter
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN
Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day

Table 14. Operation Mobile Source Emissions Factors - EMFAC2017 Winter N2O

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	N2O_RUNEX (g/mile)	N2O_IDLEX (g/vehicle/day)	N2O_STREX (g/trip)
RIVERSIDE	2021	HHDT	DSL	Aggregated	27,250.49	3,825,933.40	312,944.63	0.211284514	2.563703938	0
RIVERSIDE	2021	MHDT	DSL	Aggregated	15,756.36	963,068.11	151,121.37	0.14639942	0.128271231	0
						HHDT and MHDT Composite		**0.1982**	**2.0739**	**0.0000**
RIVERSIDE	2021	LDA	GAS	Aggregated	750,300.86	29,816,029.44	3,552,291.91	0.004439283	0	0.026726644
RIVERSIDE	2021	LDA	DSL	Aggregated	6,761.58	284,051.95	32,376.68	0.031451379	0	0
RIVERSIDE	2021	LDA	ELEC	Aggregated	10,150.83	397,377.33	51,147.17	0	0	0
RIVERSIDE	2021	LDT1	GAS	Aggregated	80,587.48	3,017,205.80	366,690.86	0.010188448	0	0.032001097
RIVERSIDE	2021	LDT1	DSL	Aggregated	42.62	937.32	139.37	0.062572357	0	0
RIVERSIDE	2021	LDT1	ELEC	Aggregated	312.67	12,704.03	1,592.30	0	0	0
RIVERSIDE	2021	LDT2	GAS	Aggregated	246,596.51	9,631,963.54	1,154,462.90	0.007123666	0	0.034856352
RIVERSIDE	2021	LDT2	DSL	Aggregated	1,288.99	58,422.34	6,390.04	0.042229592	0	0
RIVERSIDE	2021	LDT2	ELEC	Aggregated	1,692.17	54,349.02	8,602.01	0	0	0
RIVERSIDE	2021	LHDT1	GAS	Aggregated	20,885.97	692,854.05	311,169.90	0.013846302	0.003206146	0.043288941
RIVERSIDE	2021	LHDT1	DSL	Aggregated	19,999.78	695,951.65	251,572.05	0.076452779	0.021640466	0
RIVERSIDE	2021	LHDT2	GAS	Aggregated	3,292.65	108,726.45	49,055.53	0.013509986	0.003191991	0.043667538
RIVERSIDE	2021	LHDT2	DSL	Aggregated	7,676.54	267,713.75	96,561.22	0.083092199	0.034778365	0
RIVERSIDE	2021	MCY	GAS	Aggregated	35,659.72	267,522.39	71,319.43	0.065046759	0	0.01501655
RIVERSIDE	2021	MDV	GAS	Aggregated	208,791.37	7,677,992.85	957,457.85	0.009143992	0	0.039103801
RIVERSIDE	2021	MDV	DSL	Aggregated	3,985.67	171,354.65	19,488.50	0.057192078	0	0
RIVERSIDE	2021	MDV	ELEC	Aggregated	787.11	25,973.70	4,035.65	0	0	0
RIVERSIDE	2021	MH	GAS	Aggregated	6,261.09	50,694.81	626.36	0.026363938	0	0.034645361
RIVERSIDE	2021	MH	DSL	Aggregated	2,593.42	21,461.99	259.34	0.148031391	0	0
RIVERSIDE	2021	OBUS	GAS	Aggregated	589.48	27,261.01	11,794.32	0.023201133	0.00551567	0.025703843
RIVERSIDE	2021	OBUS	DSL	Aggregated	347.99	24,855.13	3,314.36	0.175379878	0.393331776	0
RIVERSIDE	2021	SBUS	GAS	Aggregated	475.47	19,228.88	1,901.89	0.020342997	0.086527591	0.053017683
RIVERSIDE	2021	SBUS	DSL	Aggregated	1,131.96	35,858.76	13,062.61	0.194217275	0.557426823	0
RIVERSIDE	2021	UBUS	GAS	Aggregated	163.48	23,017.82	653.94	0.013771049	0	0.057996739
RIVERSIDE	2021	UBUS	DSL	Aggregated	1.11	58.57	4.42	0.179371891	0	0
RIVERSIDE	2021	UBUS	ELEC	Aggregated	5.06	271.53	20.23	0	0	0
RIVERSIDE	2021	UBUS	NG	Aggregated	306.62	41,979.73	1,226.49	0.35710078	0	0
						LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite		**0.0086**	**0.0011**	**0.0289**

EMFAC2017 (v1.0.2) Emission Rates
Region Type: County
Region: RIVERSIDE
Calendar Year: 2021
Season: Winter
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN
Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day
OBUS	5.9	min/day

Table 13. Operation Mobile Source Emissions Factors - EMFAC2017 Winter CH4

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	CH4_RUNEX (g/mile)	CH4_IDLEX (g/vehicle/day)	CH4_STREX (g/trip)
RIVERSIDE	2021	HHDT	DSL	Aggregated	27,250.49	3,825,933.40	312,944.63	0.003223056	0.290878833	0
RIVERSIDE	2021	MHDT	DSL	Aggregated	15,756.36	963,068.11	151,121.37	0.005062701	0.005838695	0
						HHDT and MHDT Composite		**0.0036**	**0.2336**	**0.0000**
RIVERSIDE	2021	LDA	GAS	Aggregated	750,300.86	29,816,029.44	3,552,291.91	0.00242961	0	0.0538872
RIVERSIDE	2021	LDA	DSL	Aggregated	6,761.58	284,051.95	32,376.68	0.00064982	0	0
RIVERSIDE	2021	LDA	ELEC	Aggregated	10,150.83	397,377.33	51,147.17	0	0	0
RIVERSIDE	2021	LDT1	GAS	Aggregated	80,587.48	3,017,205.80	366,690.86	0.007739589	0	0.089163131
RIVERSIDE	2021	LDT1	DSL	Aggregated	42.62	937.32	139.37	0.010554935	0	0
RIVERSIDE	2021	LDT1	ELEC	Aggregated	312.67	12,704.03	1,592.30	0	0	0
RIVERSIDE	2021	LDT2	GAS	Aggregated	246,596.51	9,631,963.54	1,154,462.90	0.004119718	0	0.07503894
RIVERSIDE	2021	LDT2	DSL	Aggregated	1,288.99	58,422.34	6,390.04	0.000680186	0	0
RIVERSIDE	2021	LDT2	ELEC	Aggregated	1,692.17	54,349.02	8,602.01	0	0	0
RIVERSIDE	2021	LHDT1	GAS	Aggregated	20,885.97	692,854.05	311,169.90	0.006387158	0.126631292	0.028151395
RIVERSIDE	2021	LHDT1	DSL	Aggregated	19,999.78	695,951.65	251,572.05	0.004254429	0.005098128	0
RIVERSIDE	2021	LHDT2	GAS	Aggregated	3,292.65	108,726.45	49,055.53	0.004367382	0.128320577	0.026993046
RIVERSIDE	2021	LHDT2	DSL	Aggregated	7,676.54	267,713.75	96,561.22	0.003638294	0.005098128	0
RIVERSIDE	2021	MCY	GAS	Aggregated	35,659.72	267,522.39	71,319.43	0.318208203	0	0.242535685
RIVERSIDE	2021	MDV	GAS	Aggregated	208,791.37	7,677,992.85	957,457.85	0.005667505	0	0.094668404
RIVERSIDE	2021	MDV	DSL	Aggregated	3,985.67	171,354.65	19,488.50	0.000513485	0	0
RIVERSIDE	2021	MDV	ELEC	Aggregated	787.11	25,973.70	4,035.65	0	0	0
RIVERSIDE	2021	MH	GAS	Aggregated	6,261.09	50,694.81	626.36	0.013181596	0	0.033510567
RIVERSIDE	2021	MH	DSL	Aggregated	2,593.42	21,461.99	259.34	0.003336572	0	0
RIVERSIDE	2021	OBUS	GAS	Aggregated	589.48	27,261.01	11,794.32	0.011042602	0.198834684	0.031116359
RIVERSIDE	2021	OBUS	DSL	Aggregated	347.99	24,855.13	3,314.36	0.005645867	0.050463822	0
RIVERSIDE	2021	SBUS	GAS	Aggregated	475.47	19,228.88	1,901.89	0.008033921	2.408581229	0.056737146
RIVERSIDE	2021	SBUS	DSL	Aggregated	1,131.96	35,858.76	13,062.61	0.005836533	0.013363941	0
RIVERSIDE	2021	UBUS	GAS	Aggregated	163.48	23,017.82	653.94	0.003869807	0	0.054937057
RIVERSIDE	2021	UBUS	DSL	Aggregated	1.11	58.57	4.42	0.037433126	0	0
RIVERSIDE	2021	UBUS	ELEC	Aggregated	5.06	271.53	20.23	0	0	0
RIVERSIDE	2021	UBUS	NG	Aggregated	306.62	41,979.73	1,226.49	5.210992782	0	0
						LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite		**0.0092**	**0.0032**	**0.0616**

EMFAC2017 (v1.0.2) Emission Rates
Region Type: County
Region: RIVERSIDE
Calendar Year: 2021
Season: Winter
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN
Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day

Table 14. Paved Road Fugitive Emissions - Operation Mobile Sources

Equation:

$E = k \times (sL/2)^{0.91} \times (W)1.02$ [maximum day]

Where:			Units
k	particle size multiplier (PM_{10})	0.00220	lb/VMT
k	particle size multiplier ($PM_{2.5}$)	0.00054	lb/VMT
sL	silt loading (2)	0.1	g/m^2
W	average weight (tons) of the vehicle traveling the road	2.4	tons

Notes/References:
k = Emission factors from CalEEMod2016.3.1 per AP-42, Section 13.2.1 (Paved Roads).
sL = Silt loading from CalEEMod2016.3.2
For daily emissions it is assumed to have no precipitation.

Truck Weight Assumptions

EMFAC Definition	EMFAC Category	GVWR (pounds)	GVWR (tons)	
Heavy Heavy-Duty Truck	HHDT	>33,000	17	*Assumed 33,000 pounds*
Medium Heavy-Duty Truck	MHDT	14,001-33,000	8	*Assumed average of 14,001 & 33,000 pounds*
Composite Heavy & Medium Heavy-Duty Truck	HHDT & MHDT	14,001-33,000+	13	*Assumed average of HHDT & MHDT pounds*

Source: EMFAC 2014
GVWR = Gross Vehicle Weight Rating
1 pound = 0.0005 US tons

Employee Vehicles Evaluated:

Employee Type	Average Weight (tons)
Passenger Vehicles	2.4

Reference:
Source: CalEEMod2016.3.2 (average vehicle weight = 2.4 tons)
Per AP-42, Section 13.2.1 (Paved Roads): The above equation calls for the average weight of all vehicles traveling the road. For example, if 99 percent of traffic on the road are 2 ton cars/trucks while the remaining 1 percent consists of 20 ton trucks, then the mean weight "W" is 2.2 tons. More specifically, the above equation is not intended to be used to calculate a separate emission factor for each vehicle weight class. Instead, only one emission factor should be calculated to represent the "fleet" average weight of all vehicles traveling the road.

Emission Factors	**PM10 Paved Road (lb/VMT)**	**PM2.5 Paved Road (lb/VMT)**	**PM10 Paved Road (g/VMT)**	**PM2.5 Paved Road (g/VMT)**
HHDT	0.0049	0.0012	2.2087	0.5421
MHDT	0.0023	0.0006	1.0239	0.2513
HHDT & MHDT	0.0037	0.0009	1.6800	0.4124
Passenger Vehicles	0.0007	0.0002	0.2998	0.0736
Average	0.0022	0.0005	0.9899	0.2430

EMFAC2017 (v1.0.2) Emission Rates
Region Type: County
Region: RIVERSIDE
Calendar Year: 2021
Season: Winter
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK

Region	Calendar Y	Vehicle Cat	Model Year	Speed	Fuel	VMT	ROG_RUNE	TOG_RUNE
RIVERSIDE	2021	HHDT	Aggregated	15	DSL	6117.946	0.3548	0.4039
RIVERSIDE	2021	MHDT	Aggregated	15	DSL	1962.902	0.558851	0.636209
					HHDT and MHDT Composite		**0.404339**	**0.460309**
RIVERSIDE	2021	LDA	Aggregated	15	GAS	91128.87	0.027774	0.040509
RIVERSIDE	2021	LDA	Aggregated	15	DSL	866.093	0.078428	0.089285
RIVERSIDE	2021	LDT1	Aggregated	15	GAS	9476.79	0.099605	0.14526
RIVERSIDE	2021	LDT1	Aggregated	15	DSL	3.022153	0.517578	0.589229
RIVERSIDE	2021	LDT2	Aggregated	15	GAS	30191.86	0.049731	0.072531
RIVERSIDE	2021	LDT2	Aggregated	15	DSL	185.1373	0.097803	0.111342
RIVERSIDE	2021	LHDT1	Aggregated	15	GAS	1575.873	0.080182	0.117002
RIVERSIDE	2021	LHDT1	Aggregated	15	DSL	1317.893	0.324148	0.369021
RIVERSIDE	2021	LHDT2	Aggregated	15	GAS	254.5798	0.055492	0.080974
RIVERSIDE	2021	LHDT2	Aggregated	15	DSL	511.6154	0.312868	0.35618
RIVERSIDE	2021	MCY	Aggregated	15	GAS	859.4828	5.69396	7.029677
RIVERSIDE	2021	MDV	Aggregated	15	GAS	24009.85	0.071007	0.101423
RIVERSIDE	2021	MDV	Aggregated	15	DSL	528.2126	0.07405	0.084302
RIVERSIDE	2021	MH	Aggregated	15	GAS	111.9295	0.15534	0.226672
RIVERSIDE	2021	MH	Aggregated	15	DSL	43.21963	0.408399	0.464936
RIVERSIDE	2021	OBUS	Aggregated	15	GAS	60.35342	0.170445	0.248713
RIVERSIDE	2021	OBUS	Aggregated	15	DSL	50.49645	0.655129	0.745814
RIVERSIDE	2021	SBUS	Aggregated	15	GAS	1334.714	0.0789	0.11513
RIVERSIDE	2021	SBUS	Aggregated	15	DSL	2489.027	0.309359	0.352182
RIVERSIDE	2021	UBUS	Aggregated	15	GAS	708.4647	0.030425	0.044396
RIVERSIDE	2021	UBUS	Aggregated	15	DSL	4.45106	0.000669	0.04779
RIVERSIDE	2021	UBUS	Aggregated	15	NG	2868.768	0.095062	6.716966
, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite							**0.0811**	**0.2206**
RIVERSIDE	2021	HHDT	Aggregated	40	DSL	152385.4	0.081779	0.093099
RIVERSIDE	2021	MHDT	Aggregated	40	DSL	52970.02	0.118118	0.134468
					HHDT and MHDT Composite		**0.091152**	**0.10377**
RIVERSIDE	2021	LDA	Aggregated	40	GAS	3236940	0.008267	0.012055
RIVERSIDE	2021	LDA	Aggregated	40	DSL	30893.43	0.013092	0.014904
RIVERSIDE	2021	LDT1	Aggregated	40	GAS	331059.6	0.031216	0.045516
RIVERSIDE	2021	LDT1	Aggregated	40	DSL	104.5262	0.202058	0.23003
RIVERSIDE	2021	LDT2	Aggregated	40	GAS	1054727	0.015061	0.021963
RIVERSIDE	2021	LDT2	Aggregated	40	DSL	6450.797	0.013729	0.015629
RIVERSIDE	2021	LHDT1	Aggregated	40	GAS	40739.24	0.027361	0.039926
RIVERSIDE	2021	LHDT1	Aggregated	40	DSL	34141.32	0.084118	0.095762
RIVERSIDE	2021	LHDT2	Aggregated	40	GAS	6463.931	0.017461	0.025479

RIVERSIDE	2021	LHDT2	Aggregated	40	DSL	13242.88	0.073639	0.083834
RIVERSIDE	2021	MCY	Aggregated	40	GAS	29585.31	1.90447	2.343043
RIVERSIDE	2021	MDV	Aggregated	40	GAS	840989.6	0.022258	0.031562
RIVERSIDE	2021	MDV	Aggregated	40	DSL	18672.93	0.010403	0.011844
RIVERSIDE	2021	MH	Aggregated	40	GAS	3007.724	0.051276	0.074822
RIVERSIDE	2021	MH	Aggregated	40	DSL	1166.787	0.070822	0.080627
RIVERSIDE	2021	OBUS	Aggregated	40	GAS	1517.825	0.052189	0.076155
RIVERSIDE	2021	OBUS	Aggregated	40	DSL	1287.826	0.126452	0.143956
RIVERSIDE	2021	SBUS	Aggregated	40	GAS	2377.217	0.022572	0.032937
RIVERSIDE	2021	SBUS	Aggregated	40	DSL	4433.126	0.060428	0.068793
RIVERSIDE	2021	UBUS	Aggregated	40	GAS	956.8002	0.004768	0.006958
RIVERSIDE	2021	UBUS	Aggregated	40	DSL	0.543927	0.000325	0.023243
RIVERSIDE	2021	UBUS	Aggregated	40	NG	568.5687	0.050632	2.690813
A, LDT1, LDT2, LHDT1, LHDT2, MCY, MDV, MH, OBUS, SBUS, and UBUS Composite							**0.0238**	**0.0323**
RIVERSIDE	2021	HHDT	Aggregated	55	DSL	376151.9	0.057161	0.065073
RIVERSIDE	2021	MHDT	Aggregated	55	DSL	131514.3	0.092928	0.105792
HHDT and MHDT Composite							**0.066427**	**0.075622**
RIVERSIDE	2021	MH	Aggregated	55	GAS	7528.319	0.048479	0.070741
RIVERSIDE	2021	MH	Aggregated	55	DSL	2901.465	0.057431	0.065381
RIVERSIDE	2021	OBUS	Aggregated	55	GAS	3769.636	0.047688	0.069586
RIVERSIDE	2021	OBUS	Aggregated	55	DSL	3194.626	0.104996	0.11953
RIVERSIDE	2021	SBUS	Aggregated	55	GAS	850.2137	0.020051	0.029259
RIVERSIDE	2021	SBUS	Aggregated	55	DSL	1585.512	0.047543	0.054124
RIVERSIDE	2021	UBUS	Aggregated	55	GAS	2229.27	0.004291	0.006261
RIVERSIDE	2021	UBUS	Aggregated	55	DSL	1.267307	0.000261	0.018639
RIVERSIDE	2021	UBUS	Aggregated	55	NG	1244.69	0.040678	2.340476
MH, OBUS, SBUS, and UBUS Composite							**0.051466**	**0.188984**
RIVERSIDE	2021	LDA	Aggregated	65	GAS	3111329	0.008915	0.013
RIVERSIDE	2021	LDA	Aggregated	65	DSL	29791.73	0.011335	0.012904
RIVERSIDE	2021	LDT1	Aggregated	65	GAS	306084.9	0.031419	0.045805
RIVERSIDE	2021	LDT1	Aggregated	65	DSL	91.32748	0.242886	0.27651
RIVERSIDE	2021	LDT2	Aggregated	65	GAS	978026.4	0.015589	0.022731
RIVERSIDE	2021	LDT2	Aggregated	65	DSL	5932.307	0.010697	0.012178
RIVERSIDE	2021	LHDT1	Aggregated	65	GAS	112919.9	0.031905	0.046555
RIVERSIDE	2021	LHDT1	Aggregated	65	DSL	179296.3	0.094352	0.107413
RIVERSIDE	2021	LHDT2	Aggregated	65	GAS	17416.04	0.019707	0.028756
RIVERSIDE	2021	LHDT2	Aggregated	65	DSL	69274.71	0.07896	0.089891
RIVERSIDE	2021	MCY	Aggregated	65	GAS	26311.07	2.276049	2.793141
RIVERSIDE	2021	MDV	Aggregated	65	GAS	780586.7	0.024167	0.034067
RIVERSIDE	2021	MDV	Aggregated	65	DSL	17623.38	0.007998	0.009105
LDA, LDT1, LDT2, LHDT1, LHDT2, MCY, and MDV Composite							**0.028085**	**0.037033**

and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN

CO_RUNEX	NOx_RUNE	SOx_RUNE	CO2_RUNEX	CH4_RUNE	PM10_RUN	PM2_5_RU	N2O_RUNEX
1.2993	8.9103	0.0235	2488.6678	0.0165	0.0510	0.0488	0.3912
1.216541	5.590663	0.015311	1620.6665	0.025957	0.122264	0.116975	0.254746
1.27918	**8.103907**	**0.02152**	**2277.8234**	**0.018781**	**0.068308**	**0.065353**	**0.358042**
1.012076	0.054348	0.004191	423.5096	0.007308	0.004343	0.003994	0.006304
1.265108	0.113972	0.003393	358.95792	0.003643	0.01626	0.015556	0.056423
2.494155	0.199958	0.004961	501.31439	0.022734	0.006775	0.00623	0.014596
2.30103	0.959221	0.006782	717.37369	0.024041	0.386057	0.369357	0.112761
1.497094	0.124698	0.005326	538.17431	0.012335	0.00454	0.004174	0.010214
0.801779	0.097043	0.004592	485.70948	0.004543	0.012169	0.011642	0.076347
1.258409	0.29386	0.012591	1272.3275	0.017516	0.003334	0.003065	0.018628
1.363446	2.197842	0.006445	681.77034	0.015056	0.044409	0.042488	0.107165
0.84203	0.284347	0.014446	1459.85	0.013027	0.002906	0.002672	0.019086
1.335098	1.848031	0.00734	776.44703	0.014532	0.041125	0.039346	0.122047
29.84137	1.292283	0.003391	342.67123	0.846424	0.00474	0.004431	0.075051
1.827477	0.163871	0.006641	671.11415	0.016543	0.004541	0.004177	0.012913
1.315596	0.100669	0.006022	637.02248	0.00344	0.010659	0.010198	0.100131
2.743018	0.560208	0.026751	2703.2574	0.037295	0.003685	0.003388	0.035669
1.168444	8.607421	0.014733	1558.4415	0.018969	0.198372	0.18979	0.244965
2.46329	0.663825	0.026465	2674.3241	0.036511	0.002268	0.002085	0.034065
1.53189	6.588517	0.018053	1910.8831	0.030429	0.148454	0.142032	0.300364
1.126091	0.394103	0.012708	1284.1344	0.016163	0.00149	0.00137	0.025863
0.662078	9.993807	0.016233	1718.2166	0.014369	0.076993	0.073663	0.27008
0.37468	0.261561	0.025444	2571.1871	0.010017	0.002401	0.002208	0.025815
0.075759	0.64555	0.012519	1324.2142	0.046826	0.003608	0.003452	0.208148
48.37905	0.515711	0	2079.0259	6.580448	0.004077	0.0039	0.423823
2.2541	**0.2852**	**0.0052**	**562.4798**	**0.1269**	**0.0062**	**0.0058**	**0.0221**
0.362978	3.0981	0.012267	1298.4503	0.003798	0.03525	0.033725	0.204098
0.441063	2.543695	0.008586	908.82356	0.005486	0.067874	0.064937	0.142854
0.383119	**2.955095**	**0.011318**	**1197.9488**	**0.004234**	**0.043665**	**0.041776**	**0.188301**
0.67405	0.037106	0.002388	241.2803	0.002164	0.001257	0.001156	0.004308
0.17494	0.07758	0.001711	180.99256	0.000608	0.007315	0.006999	0.02845
1.59747	0.132427	0.00282	285.00583	0.007075	0.002034	0.00187	0.009727
1.098963	1.181252	0.003407	360.40766	0.009385	0.155049	0.148341	0.056651
0.980073	0.083316	0.003026	305.77941	0.003706	0.001322	0.001216	0.006876
0.104944	0.047931	0.002302	243.45424	0.000638	0.00583	0.005577	0.038268
0.746177	0.218748	0.007124	719.89496	0.005812	0.000992	0.000912	0.013404
0.445783	2.592245	0.004304	455.32842	0.003907	0.019413	0.018573	0.071571
0.519791	0.199459	0.008169	825.52842	0.004017	0.000851	0.000782	0.013198

0.388325	2.113821	0.004849	512.90655	0.00342	0.018419	0.017622	0.080622
16.69371	1.082394	0.001867	188.65732	0.281679	0.001557	0.001457	0.062777
1.184615	0.112882	0.003775	381.43379	0.005066	0.001334	0.001228	0.008798
0.168732	0.05892	0.003105	328.42808	0.000483	0.00518	0.004956	0.051624
1.628471	0.416126	0.015142	1530.0995	0.011955	0.001109	0.00102	0.025551
0.356905	4.489068	0.00919	972.0963	0.00329	0.102565	0.098128	0.1528
1.637436	0.472342	0.014979	1513.6779	0.011041	0.000664	0.000611	0.023794
0.506494	3.014362	0.010138	1073.0586	0.005873	0.06172	0.05905	0.16867
0.741064	0.271786	0.007189	726.51805	0.004624	0.000428	0.000394	0.017834
0.215353	6.074821	0.009747	1031.6744	0.002807	0.031683	0.030313	0.162165
0.1305	0.07165	0.008536	862.63563	0.001685	0.000724	0.000666	0.0084
0.028624	0.134628	0.007682	812.57551	0.022775	0.005031	0.004814	0.127726
23.11583	0.255427	0.000000	1143.2924	2.62249	0.005893	0.005638	0.233068
0.9405	**0.0969**	**0.0028**	**284.7984**	**0.0049**	**0.0016**	**0.0015**	**0.0073**
0.252131	2.487497	0.01145	1211.9738	0.002655	0.052002	0.049752	0.190505
0.392824	2.272253	0.008122	859.67935	0.004316	0.092052	0.08807	0.13513
0.288578	**2.431737**	**0.010588**	**1120.7096**	**0.003085**	**0.062377**	**0.059679**	**0.17616**
1.621634	0.413231	0.016282	1645.3339	0.011189	0.001016	0.000934	0.025057
0.296787	4.162644	0.008551	904.48815	0.002668	0.130889	0.125227	0.142173
1.386555	0.457974	0.016102	1627.194	0.010057	0.000601	0.000553	0.022969
0.389737	2.711439	0.009566	1012.5765	0.004877	0.08027	0.076798	0.159163
0.59005	0.268942	0.007729	781.00336	0.004108	0.000385	0.000354	0.017643
0.162682	5.911801	0.009101	963.2938	0.002208	0.03824	0.036586	0.151416
0.105207	0.069013	0.00918	927.68089	0.001517	0.000651	0.000599	0.008091
0.021245	0.08621	0.007323	774.67582	0.018263	0.009308	0.008905	0.121768
21.99851	0.212669	0.000000	1064.1389	2.284701	0.0047	0.004497	0.216932
2.056068	**1.52747**	**0.01202**	**1285.7568**	**0.128711**	**0.030654**	**0.029309**	**0.074639**
0.484483	0.039539	0.002744	277.25801	0.002347	0.001371	0.001261	0.004561
0.150005	0.082708	0.002115	223.71731	0.000526	0.007522	0.007197	0.035165
1.205512	0.151227	0.003229	326.32437	0.007148	0.002141	0.001969	0.010862
1.938064	1.401655	0.0042	444.31053	0.011282	0.188453	0.180301	0.069839
0.71197	0.090334	0.003472	350.83949	0.003865	0.00143	0.001315	0.007344
0.084276	0.047349	0.002819	298.21987	0.000497	0.005909	0.005653	0.046876
0.879781	0.240116	0.008217	830.37928	0.006702	0.00111	0.001021	0.014505
0.741363	3.167264	0.004709	498.08677	0.004382	0.022018	0.021066	0.078292
0.503582	0.21171	0.009413	951.19808	0.004489	0.000943	0.000867	0.013932
0.613871	2.550906	0.005035	532.6177	0.003668	0.01994	0.019078	0.08372
24.1528	1.200275	0.002231	225.48519	0.33539	0.001808	0.001693	0.069755
0.955071	0.12457	0.00434	438.54662	0.005446	0.001454	0.001337	0.009536
0.129254	0.061442	0.003861	408.43322	0.000371	0.004947	0.004733	0.0642
0.753315	**0.206901**	**0.003336**	**338.28299**	**0.005013**	**0.002367**	**0.002214**	**0.010321**

$$RESTL_{CalEEMod} = \sum_{fueltype}(RESTL_EmissionRate_i \times Population_i) / \sum_{fueltype} Trip_i$$

$$DIURN_{CalEEMod} = \sum_{fueltype}(DIURN_EmissionRate_i \times Population_i) / \sum_{fueltype} Trip_i$$

RESTL	Resting Loss Evaporative	grams/vehicle/day	grams/trip
DIURN	Diurnal Loss Evaporative	grams/vehicle/day	grams/trip

NREL
NATIONAL RENEWABLE ENERGY LABORATORY

Caution: Photovoltaic system performance predictions calculated by PVWatts® include many inherent assumptions and uncertainties and do not reflect variations between PV technologies nor site-specific characteristics except as represented by PVWatts® inputs. For example, PV modules with better performance are not differentiated within PVWatts® from lesser performing modules. Both NREL and private companies provide more sophisticated PV modeling tools (such as the System Advisor Model at https://sam.nrel.gov) that allow for more precise and complex modeling of PV systems.

The expected range is based on 30 years of actual weather data at the given location and is intended to provide an indication of the variation you might see. For more information, please refer to this NREL report: The Error Report.

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The energy output range is based on analysis of 30 years of historical weather data for nearby , and is intended to provide an indication of the possible interannual variability in generation for a Fixed (open rack) PV system at this location.

RESULTS

52,444 kWh/Year*

System output may range from 50,409 to 52,774 kWh per year near this location.

Month	Solar Radiation (kWh / m^2 / day)	AC Energy (kWh)	Value ($)
January	4.71	3,402	402
February	5.21	3,401	402
March	6.39	4,558	538
April	6.91	4,735	559
May	7.45	5,205	615
June	7.79	5,215	616
July	7.79	5,283	624
August	7.65	5,177	611
September	7.13	4,697	555
October	6.00	4,132	488
November	5.01	3,443	407
December	4.31	3,194	377
Annual	**6.36**	**52,442**	**$ 6,194**

Location and Station Identification

Requested Location	murrieta, ca
Weather Data Source	Lat, Lon: 33.57, -117.22 0.7 mi
Latitude	33.57° N
Longitude	117.22° W

PV System Specifications *(Commercial)*

DC System Size	31 kW
Module Type	Standard
Array Type	Fixed (roof mount)
Array Tilt	20°
Array Azimuth	180°
System Losses	14.08%
Inverter Efficiency	96%
DC to AC Size Ratio	1.2

Economics

Average Retail Electricity Rate	0.118 $/kWh

Performance Metrics

Capacity Factor	19.3%

Southern California Edison
Effect of 28% RPS
Based on 2012 Baseline Data

2012 Emission Factor[1]	702.44	lb CO2/MWh
2012 Renewables[2]	20%	
Without RPS	878.05	lb CO2/MWh
Future Renewables[3]	28.0%	
With 28% RPS	632.19	lb CO2/MWh
Reduction	10.0%	

All renewable energy is assumed to be carbon neutral (i.e. no emissions from biogenic sources).

1. CalEEMod User's Guide, Appendix D, Table 1.2
2. SCE. 2012 Power Content Label (Actual)
3. 20% RPS

CH4

2012 Emission Factor[1]	0.029
With 28% RPS	0.026

N2O

2012 Emission Factor[1]	0.00617
With 28% RPS	0.00555

2021

Southern California Edison
Effect of 34.7% RPS
Based on 2012 Baseline Data

2012 Emission Factor[1]	702.44	lb CO2/MWh
2012 Renewables[2]	20%	
Without RPS	878.05	lb CO2/MWh
Future Renewables[3]	34.7%	
With 36.4% RPS	573.36	lb CO2/MWh
Reduction	18.4%	

All renewable energy is assumed to be carbon neutral (i.e. no emissions from biogenic sources).

1. CalEEMod User's Guide, Appendix D, Table 1.2
2. SCE. 2012 Power Content Label (Actual)
3.RPS at 32.2% (SDG&E achieved 32.2% by 2014)
http://www.cpuc.ca.gov/RPS_Homepage/

CH4

2009 Emission Factor[1]	0.029
With 36.4% RPS	0.024

N2O

2009 Emission Factor[1]	0.00617
With 36.4% RPS	0.0050

Curci Vineyard Phase III Solar PV System Calculations

Solar PV System kW Calculation	Notes
2,100	square feet rooftop coverage
269	square feet rooftop coverage for a 4 kW solar PV system
31	kW solar PV system

Source: http://pvwatts.nrel.gov/pvwatts.php

1. Provided by applicant, Building W 1,000 square feet, Building V 800 square feet, and Building Y 300 square feet.

Curci Vineyard III Mit Tier4 i

Riverside-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Bank (with Drive-Through)	3.47	1000sqft	0.08	3,470.00	0
Other Asphalt Surfaces	3.80	Acre	3.80	165,528.00	0
Other Non-Asphalt Surfaces	0.41	Acre	0.41	17,859.60	0
Parking Lot	204.00	Space	1.84	81,600.00	0
Fast Food Restaurant with Drive Thru	5.00	1000sqft	0.11	5,000.00	0
High Turnover (Sit Down Restaurant)	3.00	1000sqft	0.07	3,000.00	0
Automobile Care Center	4.00	1000sqft	0.09	4,000.00	0
Automobile Care Center	5.00	1000sqft	0.11	5,000.00	0
Regional Shopping Center	11.87	1000sqft	0.27	11,870.00	0

1.2 Other Project Characteristics

Urbanization	Rural	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	573.36	**CH4 Intensity (lb/MWhr)**	0.024	**N2O Intensity (lb/MWhr)**	0.005

1.3 User Entered Comments & Non-Default Data

Project Characteristics - SCE RPS adjusted to year 2021 based on 2050 RPS goal of 50%.

Land Use - Land use acreages provided by applicant.

Construction Phase - Construction phase schedule provided by applicant.

Off-road Equipment - Equipment assumptions provided by applicant.

Off-road Equipment - Equipment assumptions provided by applicant.

Off-road Equipment - Equipment assumptions provided by applicant.

Off-road Equipment - Equipment assumptions provided by applicant.

Off-road Equipment - Equipment assumptions provided by applicant.

Trips and VMT - Soil export based on haul truck capacity of 14 cy. Vendor trip delivery assumptions from applicant.

Grading - Soil export and grading acreages from project applicant.

Architectural Coating - Applicant use low VOC paints for interior and exterior.

Vehicle Trips - Based on project specific traffic report, weekend trip rates scaled based on CalEEMod defaults.

Energy Use -

Construction Off-road Equipment Mitigation - Dust control measures. MM-AQ-1 Tier 4 interim Equiment for equipment > 75 hp

Waste Mitigation - AB 341

Off-road Equipment - Data provided by applicant.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	10.00	5.00
tblConstructionPhase	NumDays	20.00	64.00
tblConstructionPhase	NumDays	230.00	93.00
tblConstructionPhase	NumDays	20.00	5.00
tblConstructionPhase	NumDays	20.00	8.00
tblGrading	AcresOfGrading	32.00	6.20
tblGrading	AcresOfGrading	15.00	0.00
tblGrading	MaterialExported	0.00	35,000.00
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	7.00	1.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.024
tblProjectCharacteristics	CO2IntensityFactor	702.44	573.36
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.005
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripLength	20.00	3.60
tblTripsAndVMT	HaulingTripNumber	4,375.00	5,000.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	49.00	24.00
tblTripsAndVMT	VendorTripNumber	0.00	620.00
tblTripsAndVMT	WorkerTripNumber	8.00	6.00
tblVehicleTrips	ST_TR	23.72	65.12
tblVehicleTrips	ST_TR	86.32	431.60
tblVehicleTrips	ST_TR	722.03	3,610.15
tblVehicleTrips	ST_TR	158.37	475.11
tblVehicleTrips	ST_TR	49.97	1,964.86
tblVehicleTrips	SU_TR	11.88	32.61
tblVehicleTrips	SU_TR	31.90	159.50

tblVehicleTrips	SU_TR	542.72	2,713.60
tblVehicleTrips	SU_TR	131.84	395.52
tblVehicleTrips	SU_TR	25.24	992.46
tblVehicleTrips	WD_TR	23.72	65.12
tblVehicleTrips	WD_TR	148.15	740.75
tblVehicleTrips	WD_TR	496.12	2,480.60
tblVehicleTrips	WD_TR	127.15	381.45
tblVehicleTrips	WD_TR	42.70	1,679.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.3642	2.5136	2.3290	5.6000e-003	0.1259	0.1017	0.2276	0.0332	0.0974	0.1306	0.0000	501.7659	501.7659	0.0666	0.0000	503.4316
Maximum	**0.3642**	**2.5136**	**2.3290**	**5.6000e-003**	**0.1259**	**0.1017**	**0.2276**	**0.0332**	**0.0974**	**0.1306**	**0.0000**	**501.7659**	**501.7659**	**0.0666**	**0.0000**	**503.4316**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.2303	1.8650	2.5564	5.6000e-003	0.0964	6.4400e-003	0.1029	0.0264	6.3600e-003	0.0327	0.0000	501.7655	501.7655	0.0666	0.0000	503.4312
Maximum	**0.2303**	**1.8650**	**2.5564**	**5.6000e-003**	**0.0964**	**6.4400e-003**	**0.1029**	**0.0264**	**6.3600e-003**	**0.0327**	**0.0000**	**501.7655**	**501.7655**	**0.0666**	**0.0000**	**503.4312**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**36.77**	**25.81**	**-9.76**	**0.00**	**23.40**	**93.67**	**54.80**	**20.58**	**93.47**	**74.95**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	2-1-2021	4-30-2021	0.8224	0.5779
2	5-1-2021	7-31-2021	1.1576	0.8159
3	8-1-2021	9-30-2021	0.8662	0.6829
		Highest	1.1576	0.8159

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1530	3.0000e-005	3.0800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.9700e-003	5.9700e-003	2.0000e-005	0.0000	6.3700e-003
Energy	0.0141	0.1284	0.1078	7.7000e-004		9.7600e-003	9.7600e-003		9.7600e-003	9.7600e-003	0.0000	317.8811	317.8811	0.0101	4.1200e-003	319.3609
Mobile	9.5940	78.4189	94.1872	0.3882	27.0364	0.2819	27.3183	7.2440	0.2645	7.5085	0.0000	36,022.1846	36,022.1846	2.3437	0.0000	36,080.7775
Waste						0.0000	0.0000		0.0000	0.0000	29.1028	0.0000	29.1028	1.7199	0.0000	72.1010
Water						0.0000	0.0000		0.0000	0.0000	1.3616	18.2814	19.6430	0.1406	3.4600e-003	24.1898
Total	**9.7611**	**78.5473**	**94.2982**	**0.3890**	**27.0364**	**0.2917**	**27.3281**	**7.2440**	**0.2742**	**7.5182**	**30.4644**	**36,358.3530**	**36,388.8174**	**4.2144**	**7.5800e-003**	**36,496.4355**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1530	3.0000e-005	3.0800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.9700e-003	5.9700e-003	2.0000e-005	0.0000	6.3700e-003
Energy	0.0141	0.1284	0.1078	7.7000e-004		9.7600e-003	9.7600e-003		9.7600e-003	9.7600e-003	0.0000	317.8811	317.8811	0.0101	4.1200e-003	319.3609
Mobile	9.5940	78.4189	94.1872	0.3882	27.0364	0.2819	27.3183	7.2440	0.2645	7.5085	0.0000	36,022.1846	36,022.1846	2.3437	0.0000	36,080.7775
Waste						0.0000	0.0000		0.0000	0.0000	14.5514	0.0000	14.5514	0.8600	0.0000	36.0505
Water						0.0000	0.0000		0.0000	0.0000	1.3616	18.2814	19.6430	0.1406	3.4600e-003	24.1898
Total	**9.7611**	**78.5473**	**94.2982**	**0.3890**	**27.0364**	**0.2917**	**27.3281**	**7.2440**	**0.2742**	**7.5182**	**15.9130**	**36,358.3530**	**36,374.2660**	**3.3544**	**7.5800e-003**	**36,460.3851**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**47.77**	**0.00**	**0.04**	**20.41**	**0.00**	**0.10**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	2/1/2021	2/5/2021	5	5	
2	Grading	Grading	2/6/2021	5/6/2021	5	64	
3	Trenching	Trenching	5/7/2021	5/20/2021	5	10	
4	Building Construction	Building Construction	5/7/2021	9/14/2021	5	93	
5	Paving	Paving	9/15/2021	9/21/2021	5	5	
6	Architectural Coating	Architectural Coating	9/21/2021	9/30/2021	5	8	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 6.2

Acres of Paving: 6.05

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 48,510; Non-Residential Outdoor: 16,170; Striped Parking Area: 15,899 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Scrapers	3	8.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rollers	1	8.00	80	0.38
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	2	1.00	231	0.29
Building Construction	Forklifts	2	8.00	89	0.20
Building Construction	Generator Sets	6	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Architectural Coating	Air Compressors	2	8.00	78	0.48
Trenching	Excavators	1	8.00	158	0.38
Trenching	Tractors/Loaders/Backhoes	2	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	4	10.00	0.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	5	13.00	2.00	5,000.00	19.80	7.90	3.60	LD_Mix	HDT_Mix	HHDT
Trenching	3	6.00	0.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	13	122.00	24.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	620.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	24.00	0.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.4400e-003	0.0850	0.0582	1.2000e-004		3.4000e-003	3.4000e-003		3.1300e-003	3.1300e-003	0.0000	10.6699	10.6699	3.4500e-003	0.0000	10.7562
Total	**7.4400e-003**	**0.0850**	**0.0582**	**1.2000e-004**	**0.0000**	**3.4000e-003**	**3.4000e-003**	**0.0000**	**3.1300e-003**	**3.1300e-003**	**0.0000**	**10.6699**	**10.6699**	**3.4500e-003**	**0.0000**	**10.7562**

3.2 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4000e-004	9.0000e-005	1.0200e-003	0.0000	3.7000e-004	0.0000	3.7000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.2976	0.2976	1.0000e-005	0.0000	0.2978
Total	**1.4000e-004**	**9.0000e-005**	**1.0200e-003**	**0.0000**	**3.7000e-004**	**0.0000**	**3.7000e-004**	**1.0000e-004**	**0.0000**	**1.0000e-004**	**0.0000**	**0.2976**	**0.2976**	**1.0000e-005**	**0.0000**	**0.2978**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0400e-003	0.0335	0.0664	1.2000e-004		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	10.6699	10.6699	3.4500e-003	0.0000	10.7562
Total	**2.0400e-003**	**0.0335**	**0.0664**	**1.2000e-004**	**0.0000**	**2.0000e-004**	**2.0000e-004**	**0.0000**	**2.0000e-004**	**2.0000e-004**	**0.0000**	**10.6699**	**10.6699**	**3.4500e-003**	**0.0000**	**10.7562**

3.2 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4000e-004	9.0000e-005	1.0200e-003	0.0000	2.9000e-004	0.0000	2.9000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2976	0.2976	1.0000e-005	0.0000	0.2978
Total	**1.4000e-004**	**9.0000e-005**	**1.0200e-003**	**0.0000**	**2.9000e-004**	**0.0000**	**2.9000e-004**	**8.0000e-005**	**0.0000**	**8.0000e-005**	**0.0000**	**0.2976**	**0.2976**	**1.0000e-005**	**0.0000**	**0.2978**

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.5000e-003	0.0000	5.5000e-003	6.9000e-004	0.0000	6.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0399	0.4414	0.3661	6.6000e-004		0.0203	0.0203		0.0186	0.0186	0.0000	57.9949	57.9949	0.0188	0.0000	58.4639
Total	**0.0399**	**0.4414**	**0.3661**	**6.6000e-004**	**5.5000e-003**	**0.0203**	**0.0258**	**6.9000e-004**	**0.0186**	**0.0193**	**0.0000**	**57.9949**	**57.9949**	**0.0188**	**0.0000**	**58.4639**

3.3 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.3100e-003	0.3124	0.0354	6.2000e-004	7.8000e-003	3.7000e-004	8.1700e-003	2.1500e-003	3.6000e-004	2.5000e-003	0.0000	59.4956	59.4956	8.2700e-003	0.0000	59.7024
Vendor	1.6000e-004	6.2300e-003	1.2000e-003	2.0000e-005	4.6000e-004	1.0000e-005	4.8000e-004	1.3000e-004	1.0000e-005	1.5000e-004	0.0000	1.7233	1.7233	1.2000e-004	0.0000	1.7263
Worker	2.2500e-003	1.5800e-003	0.0170	5.0000e-005	6.1600e-003	4.0000e-005	6.1900e-003	1.6300e-003	3.0000e-005	1.6700e-003	0.0000	4.9523	4.9523	1.1000e-004	0.0000	4.9552
Total	**8.7200e-003**	**0.3202**	**0.0537**	**6.9000e-004**	**0.0144**	**4.2000e-004**	**0.0148**	**3.9100e-003**	**4.0000e-004**	**4.3200e-003**	**0.0000**	**66.1712**	**66.1712**	**8.5000e-003**	**0.0000**	**66.3839**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.1500e-003	0.0000	2.1500e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0118	0.2521	0.4513	6.6000e-004		1.0800e-003	1.0800e-003		1.0800e-003	1.0800e-003	0.0000	57.9949	57.9949	0.0188	0.0000	58.4638
Total	**0.0118**	**0.2521**	**0.4513**	**6.6000e-004**	**2.1500e-003**	**1.0800e-003**	**3.2300e-003**	**2.7000e-004**	**1.0800e-003**	**1.3500e-003**	**0.0000**	**57.9949**	**57.9949**	**0.0188**	**0.0000**	**58.4638**

3.3 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.3100e-003	0.3124	0.0354	6.2000e-004	6.2800e-003	3.7000e-004	6.6600e-003	1.7700e-003	3.6000e-004	2.1300e-003	0.0000	59.4956	59.4956	8.2700e-003	0.0000	59.7024
Vendor	1.6000e-004	6.2300e-003	1.2000e-003	2.0000e-005	3.8000e-004	1.0000e-005	3.9000e-004	1.1000e-004	1.0000e-005	1.2000e-004	0.0000	1.7233	1.7233	1.2000e-004	0.0000	1.7263
Worker	2.2500e-003	1.5800e-003	0.0170	5.0000e-005	4.7700e-003	4.0000e-005	4.8000e-003	1.2900e-003	3.0000e-005	1.3300e-003	0.0000	4.9523	4.9523	1.1000e-004	0.0000	4.9552
Total	**8.7200e-003**	**0.3202**	**0.0537**	**6.9000e-004**	**0.0114**	**4.2000e-004**	**0.0119**	**3.1700e-003**	**4.0000e-004**	**3.5800e-003**	**0.0000**	**66.1712**	**66.1712**	**8.5000e-003**	**0.0000**	**66.3839**

3.4 Trenching - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.0200e-003	0.0297	0.0390	6.0000e-005		1.6400e-003	1.6400e-003		1.5100e-003	1.5100e-003	0.0000	4.9988	4.9988	1.6200e-003	0.0000	5.0393
Total	**3.0200e-003**	**0.0297**	**0.0390**	**6.0000e-005**		**1.6400e-003**	**1.6400e-003**		**1.5100e-003**	**1.5100e-003**	**0.0000**	**4.9988**	**4.9988**	**1.6200e-003**	**0.0000**	**5.0393**

3.4 Trenching - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	1.1000e-004	1.2300e-003	0.0000	4.4000e-004	0.0000	4.5000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3571	0.3571	1.0000e-005	0.0000	0.3573
Total	**1.6000e-004**	**1.1000e-004**	**1.2300e-003**	**0.0000**	**4.4000e-004**	**0.0000**	**4.5000e-004**	**1.2000e-004**	**0.0000**	**1.2000e-004**	**0.0000**	**0.3571**	**0.3571**	**1.0000e-005**	**0.0000**	**0.3573**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.0100e-003	0.0249	0.0430	6.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	4.9988	4.9988	1.6200e-003	0.0000	5.0392
Total	**1.0100e-003**	**0.0249**	**0.0430**	**6.0000e-005**		**9.0000e-005**	**9.0000e-005**		**9.0000e-005**	**9.0000e-005**	**0.0000**	**4.9988**	**4.9988**	**1.6200e-003**	**0.0000**	**5.0392**

3.4 Trenching - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	1.1000e-004	1.2300e-003	0.0000	3.4000e-004	0.0000	3.5000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.3571	0.3571	1.0000e-005	0.0000	0.3573
Total	**1.6000e-004**	**1.1000e-004**	**1.2300e-003**	**0.0000**	**3.4000e-004**	**0.0000**	**3.5000e-004**	**9.0000e-005**	**0.0000**	**1.0000e-004**	**0.0000**	**0.3571**	**0.3571**	**1.0000e-005**	**0.0000**	**0.3573**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1427	1.3139	1.4750	2.4800e-003		0.0725	0.0725		0.0704	0.0704	0.0000	214.1540	214.1540	0.0263	0.0000	214.8117
Total	**0.1427**	**1.3139**	**1.4750**	**2.4800e-003**		**0.0725**	**0.0725**		**0.0704**	**0.0704**	**0.0000**	**214.1540**	**214.1540**	**0.0263**	**0.0000**	**214.8117**

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.8100e-003	0.1086	0.0209	3.1000e-004	8.0700e-003	2.2000e-004	8.2900e-003	2.3300e-003	2.1000e-004	2.5400e-003	0.0000	30.0493	30.0493	2.1200e-003	0.0000	30.1022
Worker	0.0307	0.0215	0.2323	7.5000e-004	0.0840	4.9000e-004	0.0845	0.0223	4.5000e-004	0.0228	0.0000	67.5352	67.5352	1.5400e-003	0.0000	67.5738
Total	**0.0336**	**0.1301**	**0.2532**	**1.0600e-003**	**0.0920**	**7.1000e-004**	**0.0928**	**0.0246**	**6.6000e-004**	**0.0253**	**0.0000**	**97.5844**	**97.5844**	**3.6600e-003**	**0.0000**	**97.6760**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0477	0.9237	1.6022	2.4800e-003		3.5000e-003	3.5000e-003		3.5000e-003	3.5000e-003	0.0000	214.1538	214.1538	0.0263	0.0000	214.8115
Total	**0.0477**	**0.9237**	**1.6022**	**2.4800e-003**		**3.5000e-003**	**3.5000e-003**		**3.5000e-003**	**3.5000e-003**	**0.0000**	**214.1538**	**214.1538**	**0.0263**	**0.0000**	**214.8115**

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.8100e-003	0.1086	0.0209	3.1000e-004	6.5800e-003	2.2000e-004	6.8000e-003	1.9600e-003	2.1000e-004	2.1800e-003	0.0000	30.0493	30.0493	2.1200e-003	0.0000	30.1022
Worker	0.0307	0.0215	0.2323	7.5000e-004	0.0650	4.9000e-004	0.0655	0.0177	4.5000e-004	0.0181	0.0000	67.5352	67.5352	1.5400e-003	0.0000	67.5738
Total	**0.0336**	**0.1301**	**0.2532**	**1.0600e-003**	**0.0716**	**7.1000e-004**	**0.0723**	**0.0196**	**6.6000e-004**	**0.0203**	**0.0000**	**97.5844**	**97.5844**	**3.6600e-003**	**0.0000**	**97.6760**

3.6 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.5000e-003	0.0256	0.0280	4.0000e-005		1.4600e-003	1.4600e-003		1.3400e-003	1.3400e-003	0.0000	3.5495	3.5495	1.1500e-003	0.0000	3.5782
Paving	7.3900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**9.8900e-003**	**0.0256**	**0.0280**	**4.0000e-005**		**1.4600e-003**	**1.4600e-003**		**1.3400e-003**	**1.3400e-003**	**0.0000**	**3.5495**	**3.5495**	**1.1500e-003**	**0.0000**	**3.5782**

3.6 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.9000e-003	0.1508	0.0291	4.4000e-004	0.0112	3.1000e-004	0.0115	3.2300e-003	3.0000e-004	3.5300e-003	0.0000	41.7351	41.7351	2.9400e-003	0.0000	41.8086
Worker	1.8000e-004	1.2000e-004	1.3300e-003	0.0000	4.8000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3869	0.3869	1.0000e-005	0.0000	0.3871
Total	**4.0800e-003**	**0.1509**	**0.0304**	**4.4000e-004**	**0.0117**	**3.1000e-004**	**0.0120**	**3.3600e-003**	**3.0000e-004**	**3.6600e-003**	**0.0000**	**42.1220**	**42.1220**	**2.9500e-003**	**0.0000**	**42.1958**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.9000e-004	0.0177	0.0305	4.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	3.5494	3.5494	1.1500e-003	0.0000	3.5781
Paving	7.3900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**8.1800e-003**	**0.0177**	**0.0305**	**4.0000e-005**		**7.0000e-005**	**7.0000e-005**		**7.0000e-005**	**7.0000e-005**	**0.0000**	**3.5494**	**3.5494**	**1.1500e-003**	**0.0000**	**3.5781**

3.6 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.9000e-003	0.1508	0.0291	4.4000e-004	9.1400e-003	3.1000e-004	9.4500e-003	2.7200e-003	3.0000e-004	3.0200e-003	0.0000	41.7351	41.7351	2.9400e-003	0.0000	41.8086
Worker	1.8000e-004	1.2000e-004	1.3300e-003	0.0000	3.7000e-004	0.0000	3.8000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3869	0.3869	1.0000e-005	0.0000	0.3871
Total	**4.0800e-003**	**0.1509**	**0.0304**	**4.4000e-004**	**9.5100e-003**	**3.1000e-004**	**9.8300e-003**	**2.8200e-003**	**3.0000e-004**	**3.1200e-003**	**0.0000**	**42.1220**	**42.1220**	**2.9500e-003**	**0.0000**	**42.1958**

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1118					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.3300e-003	0.0163	0.0194	3.0000e-005		1.0000e-003	1.0000e-003		1.0000e-003	1.0000e-003	0.0000	2.7235	2.7235	1.9000e-004	0.0000	2.7281
Total	**0.1141**	**0.0163**	**0.0194**	**3.0000e-005**		**1.0000e-003**	**1.0000e-003**		**1.0000e-003**	**1.0000e-003**	**0.0000**	**2.7235**	**2.7235**	**1.9000e-004**	**0.0000**	**2.7281**

3.7 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.2000e-004	3.6000e-004	3.9300e-003	1.0000e-005	1.4200e-003	1.0000e-005	1.4300e-003	3.8000e-004	1.0000e-005	3.8000e-004	0.0000	1.1429	1.1429	3.0000e-005	0.0000	1.1435
Total	**5.2000e-004**	**3.6000e-004**	**3.9300e-003**	**1.0000e-005**	**1.4200e-003**	**1.0000e-005**	**1.4300e-003**	**3.8000e-004**	**1.0000e-005**	**3.8000e-004**	**0.0000**	**1.1429**	**1.1429**	**3.0000e-005**	**0.0000**	**1.1435**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1118					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.8000e-004	0.0113	0.0196	3.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	2.7235	2.7235	1.9000e-004	0.0000	2.7281
Total	**0.1124**	**0.0113**	**0.0196**	**3.0000e-005**		**4.0000e-005**	**4.0000e-005**		**4.0000e-005**	**4.0000e-005**	**0.0000**	**2.7235**	**2.7235**	**1.9000e-004**	**0.0000**	**2.7281**

3.7 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.2000e-004	3.6000e-004	3.9300e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1100e-003	3.0000e-004	1.0000e-005	3.1000e-004	0.0000	1.1429	1.1429	3.0000e-005	0.0000	1.1435
Total	**5.2000e-004**	**3.6000e-004**	**3.9300e-003**	**1.0000e-005**	**1.1000e-003**	**1.0000e-005**	**1.1100e-003**	**3.0000e-004**	**1.0000e-005**	**3.1000e-004**	**0.0000**	**1.1429**	**1.1429**	**3.0000e-005**	**0.0000**	**1.1435**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	9.5940	78.4189	94.1872	0.3882	27.0364	0.2819	27.3183	7.2440	0.2645	7.5085	0.0000	36,022.1846	36,022.1846	2.3437	0.0000	36,080.7775
Unmitigated	9.5940	78.4189	94.1872	0.3882	27.0364	0.2819	27.3183	7.2440	0.2645	7.5085	0.0000	36,022.1846	36,022.1846	2.3437	0.0000	36,080.7775

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Automobile Care Center	260.48	260.48	130.44	372,571	372,571
Automobile Care Center	325.60	325.60	163.05	465,713	465,713
Bank (with Drive-Through)	2,570.40	1,497.65	553.47	2,693,921	2,693,921
Fast Food Restaurant with Drive Thru	12,403.00	18,050.75	13568.00	16,697,492	16,697,492
High Turnover (Sit Down Restaurant)	1,144.35	1,425.33	1186.56	1,910,776	1,910,776
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	19,929.73	23,322.89	11780.50	48,668,752	48,668,752
Total	36,633.56	44,882.70	27,382.02	70,809,224	70,809,224

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Automobile Care Center	18.50	10.10	7.90	33.00	48.00	19.00	21	51	28
Automobile Care Center	18.50	10.10	7.90	33.00	48.00	19.00	21	51	28
Bank (with Drive-Through)	18.50	10.10	7.90	6.60	74.40	19.00	27	26	47
Fast Food Restaurant with Drive	18.50	10.10	7.90	2.20	78.80	19.00	29	21	50
High Turnover (Sit Down	18.50	10.10	7.90	8.50	72.50	19.00	37	20	43
Other Asphalt Surfaces	18.50	10.10	7.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	18.50	10.10	7.90	0.00	0.00	0.00	0	0	0
Parking Lot	18.50	10.10	7.90	0.00	0.00	0.00	0	0	0
Regional Shopping Center	18.50	10.10	7.90	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Automobile Care Center	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Bank (with Drive-Through)	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Fast Food Restaurant with Drive Thru	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
High Turnover (Sit Down Restaurant)	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Other Asphalt Surfaces	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Other Non-Asphalt Surfaces	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Parking Lot	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Regional Shopping Center	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	178.1202	178.1202	7.4600e-003	1.5500e-003	178.7694
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	178.1202	178.1202	7.4600e-003	1.5500e-003	178.7694
NaturalGas Mitigated	0.0141	0.1284	0.1078	7.7000e-004		9.7600e-003	9.7600e-003		9.7600e-003	9.7600e-003	0.0000	139.7610	139.7610	2.6800e-003	2.5600e-003	140.5915
NaturalGas Unmitigated	0.0141	0.1284	0.1078	7.7000e-004		9.7600e-003	9.7600e-003		9.7600e-003	9.7600e-003	0.0000	139.7610	139.7610	2.6800e-003	2.5600e-003	140.5915

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Automobile Care Center	129960	7.0000e-004	6.3700e-003	5.3500e-003	4.0000e-005		4.8000e-004	4.8000e-004		4.8000e-004	4.8000e-004	0.0000	6.9352	6.9352	1.3000e-004	1.3000e-004	6.9764
Automobile Care Center	162450	8.8000e-004	7.9600e-003	6.6900e-003	5.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	8.6690	8.6690	1.7000e-004	1.6000e-004	8.7205
Bank (with Drive-Through)	112740	6.1000e-004	5.5300e-003	4.6400e-003	3.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004	0.0000	6.0163	6.0163	1.2000e-004	1.1000e-004	6.0520
Fast Food Restaurant with Drive Thru	1.3672e+006	7.3700e-003	0.0670	0.0563	4.0000e-004		5.0900e-003	5.0900e-003		5.0900e-003	5.0900e-003	0.0000	72.9590	72.9590	1.4000e-003	1.3400e-003	73.3926
High Turnover (Sit Down Restaurant)	820320	4.4200e-003	0.0402	0.0338	2.4000e-004		3.0600e-003	3.0600e-003		3.0600e-003	3.0600e-003	0.0000	43.7754	43.7754	8.4000e-004	8.0000e-004	44.0355
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	26351.4	1.4000e-004	1.2900e-003	1.0900e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	1.4062	1.4062	3.0000e-005	3.0000e-005	1.4146
Total		**0.0141**	**0.1284**	**0.1079**	**7.7000e-004**		**9.7600e-003**	**9.7600e-003**		**9.7600e-003**	**9.7600e-003**	**0.0000**	**139.7610**	**139.7610**	**2.6900e-003**	**2.5700e-003**	**140.5915**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Automobile Care Center	129960	7.0000e-004	6.3700e-003	5.3500e-003	4.0000e-005		4.8000e-004	4.8000e-004		4.8000e-004	4.8000e-004	0.0000	6.9352	6.9352	1.3000e-004	1.3000e-004	6.9764
Automobile Care Center	162450	8.8000e-004	7.9600e-003	6.6900e-003	5.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	8.6690	8.6690	1.7000e-004	1.6000e-004	8.7205
Bank (with Drive-Through)	112740	6.1000e-004	5.5300e-003	4.6400e-003	3.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004	0.0000	6.0163	6.0163	1.2000e-004	1.1000e-004	6.0520
Fast Food Restaurant with Drive Thru	1.3672e+006	7.3700e-003	0.0670	0.0563	4.0000e-004		5.0900e-003	5.0900e-003		5.0900e-003	5.0900e-003	0.0000	72.9590	72.9590	1.4000e-003	1.3400e-003	73.3926
High Turnover (Sit Down Restaurant)	820320	4.4200e-003	0.0402	0.0338	2.4000e-004		3.0600e-003	3.0600e-003		3.0600e-003	3.0600e-003	0.0000	43.7754	43.7754	8.4000e-004	8.0000e-004	44.0355
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	26351.4	1.4000e-004	1.2900e-003	1.0900e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	1.4062	1.4062	3.0000e-005	3.0000e-005	1.4146
Total		**0.0141**	**0.1284**	**0.1079**	**7.7000e-004**		**9.7600e-003**	**9.7600e-003**		**9.7600e-003**	**9.7600e-003**	**0.0000**	**139.7610**	**139.7610**	**2.6900e-003**	**2.5700e-003**	**140.5915**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	40600	10.5589	4.4000e-004	9.0000e-005	10.5974
Automobile Care Center	50750	13.1986	5.5000e-004	1.2000e-004	13.2468
Bank (with Drive-Through)	35220.5	9.1599	3.8000e-004	8.0000e-005	9.1933
Fast Food Restaurant with Drive Thru	237400	61.7410	2.5800e-003	5.4000e-004	61.9661
High Turnover (Sit Down Restaurant)	142440	37.0446	1.5500e-003	3.2000e-004	37.1797
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	28560	7.4277	3.1000e-004	6.0000e-005	7.4547
Regional Shopping Center	149918	38.9895	1.6300e-003	3.4000e-004	39.1316
Total		**178.1202**	**7.4400e-003**	**1.5500e-003**	**178.7694**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	40600	10.5589	4.4000e-004	9.0000e-005	10.5974
Automobile Care Center	50750	13.1986	5.5000e-004	1.2000e-004	13.2468
Bank (with Drive-Through)	35220.5	9.1599	3.8000e-004	8.0000e-005	9.1933
Fast Food Restaurant with Drive Thru	237400	61.7410	2.5800e-003	5.4000e-004	61.9661
High Turnover (Sit Down Restaurant)	142440	37.0446	1.5500e-003	3.2000e-004	37.1797
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	28560	7.4277	3.1000e-004	6.0000e-005	7.4547
Regional Shopping Center	149918	38.9895	1.6300e-003	3.4000e-004	39.1316
Total		**178.1202**	**7.4400e-003**	**1.5500e-003**	**178.7694**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1530	3.0000e-005	3.0800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.9700e-003	5.9700e-003	2.0000e-005	0.0000	6.3700e-003
Unmitigated	0.1530	3.0000e-005	3.0800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.9700e-003	5.9700e-003	2.0000e-005	0.0000	6.3700e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0187					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1340					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.9000e-004	3.0000e-005	3.0800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.9700e-003	5.9700e-003	2.0000e-005	0.0000	6.3700e-003
Total	**0.1530**	**3.0000e-005**	**3.0800e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**5.9700e-003**	**5.9700e-003**	**2.0000e-005**	**0.0000**	**6.3700e-003**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0187					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1340					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.9000e-004	3.0000e-005	3.0800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.9700e-003	5.9700e-003	2.0000e-005	0.0000	6.3700e-003
Total	**0.1530**	**3.0000e-005**	**3.0800e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**5.9700e-003**	**5.9700e-003**	**2.0000e-005**	**0.0000**	**6.3700e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	19.6430	0.1406	3.4600e-003	24.1898
Unmitigated	19.6430	0.1406	3.4600e-003	24.1898

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	0.84673 / 0.518964	4.6355	0.0278	6.9000e-004	5.5353
Bank (with Drive-Through)	0.137492 / 0.084269	0.7527	4.5100e-003	1.1000e-004	0.8988
Fast Food Restaurant with Drive Thru	1.51767 / 0.0968725	5.9008	0.0497	1.2100e-003	7.5049
High Turnover (Sit Down Restaurant)	0.910601 / 0.0581235	3.5405	0.0298	7.3000e-004	4.5029
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0.879241 / 0.53889	4.8135	0.0288	7.2000e-004	5.7478
Total		**19.6430**	**0.1406**	**3.4600e-003**	**24.1898**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	0.84673 / 0.518964	4.6355	0.0278	6.9000e-004	5.5353
Bank (with Drive-Through)	0.137492 / 0.084269	0.7527	4.5100e-003	1.1000e-004	0.8988
Fast Food Restaurant with Drive Thru	1.51767 / 0.0968725	5.9008	0.0497	1.2100e-003	7.5049
High Turnover (Sit Down Restaurant)	0.910601 / 0.0581235	3.5405	0.0298	7.3000e-004	4.5029
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0.879241 / 0.53889	4.8135	0.0288	7.2000e-004	5.7478
Total		**19.6430**	**0.1406**	**3.4600e-003**	**24.1898**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	14.5514	0.8600	0.0000	36.0505
Unmitigated	29.1028	1.7199	0.0000	72.1010

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	34.38	6.9788	0.4124	0.0000	17.2898
Bank (with Drive-Through)	3.24	0.6577	0.0389	0.0000	1.6294
Fast Food Restaurant with Drive Thru	57.59	11.6903	0.6909	0.0000	28.9621
High Turnover (Sit Down Restaurant)	35.7	7.2468	0.4283	0.0000	17.9536
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	12.46	2.5293	0.1495	0.0000	6.2662
Total		**29.1028**	**1.7199**	**0.0000**	**72.1010**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	17.19	3.4894	0.2062	0.0000	8.6449
Bank (with Drive-Through)	1.62	0.3289	0.0194	0.0000	0.8147
Fast Food Restaurant with Drive Thru	28.795	5.8451	0.3454	0.0000	14.4811
High Turnover (Sit Down Restaurant)	17.85	3.6234	0.2141	0.0000	8.9768
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	6.23	1.2646	0.0747	0.0000	3.1331
Total		**14.5514**	**0.8600**	**0.0000**	**36.0505**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Curci Vineyard III Mit Tier4 i

Riverside-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Bank (with Drive-Through)	3.47	1000sqft	0.08	3,470.00	0
Other Asphalt Surfaces	3.80	Acre	3.80	165,528.00	0
Other Non-Asphalt Surfaces	0.41	Acre	0.41	17,859.60	0
Parking Lot	204.00	Space	1.84	81,600.00	0
Fast Food Restaurant with Drive Thru	5.00	1000sqft	0.11	5,000.00	0
High Turnover (Sit Down Restaurant)	3.00	1000sqft	0.07	3,000.00	0
Automobile Care Center	4.00	1000sqft	0.09	4,000.00	0
Automobile Care Center	5.00	1000sqft	0.11	5,000.00	0
Regional Shopping Center	11.87	1000sqft	0.27	11,870.00	0

1.2 Other Project Characteristics

Urbanization	Rural	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	573.36	**CH4 Intensity (lb/MWhr)**	0.024	**N2O Intensity (lb/MWhr)**	0.005

1.3 User Entered Comments & Non-Default Data

Curci Vineyard III Mit Tier4 i - Riverside-South Coast County, Summer

Project Characteristics - SCE RPS adjusted to year 2021 based on 2050 RPS goal of 50%.

Land Use - Land use acreages provided by applicant.

Construction Phase - Construction phase schedule provided by applicant.

Off-road Equipment - Equipment assumptions provided by applicant.

Off-road Equipment - Equipment assumptions provided by applicant.

Off-road Equipment - Equipment assumptions provided by applicant.

Off-road Equipment - Equipment assumptions provided by applicant.

Off-road Equipment - Equipment assumptions provided by applicant.

Trips and VMT - Soil export based on haul truck capacity of 14 cy. Vendor trip delivery assumptions from applicant.

Grading - Soil export and grading acreages from project applicant.

Architectural Coating - Applicant use low VOC paints for interior and exterior.

Vehicle Trips - Based on project specific traffic report, weekend trip rates scaled based on CalEEMod defaults.

Energy Use -

Construction Off-road Equipment Mitigation - Dust control measures. MM-AQ-1 Tier 4 interim Equiment for equipment > 75 hp

Waste Mitigation - AB 341

Off-road Equipment - Data provided by applicant.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	10.00	5.00
tblConstructionPhase	NumDays	20.00	64.00
tblConstructionPhase	NumDays	230.00	93.00
tblConstructionPhase	NumDays	20.00	5.00
tblConstructionPhase	NumDays	20.00	8.00
tblGrading	AcresOfGrading	32.00	6.20
tblGrading	AcresOfGrading	15.00	0.00
tblGrading	MaterialExported	0.00	35,000.00
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	7.00	1.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.024
tblProjectCharacteristics	CO2IntensityFactor	702.44	573.36
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.005
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripLength	20.00	3.60
tblTripsAndVMT	HaulingTripNumber	4,375.00	5,000.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	49.00	24.00
tblTripsAndVMT	VendorTripNumber	0.00	620.00
tblTripsAndVMT	WorkerTripNumber	8.00	6.00
tblVehicleTrips	ST_TR	23.72	65.12
tblVehicleTrips	ST_TR	86.32	431.60
tblVehicleTrips	ST_TR	722.03	3,610.15
tblVehicleTrips	ST_TR	158.37	475.11
tblVehicleTrips	ST_TR	49.97	1,964.86
tblVehicleTrips	SU_TR	11.88	32.61
tblVehicleTrips	SU_TR	31.90	159.50

tblVehicleTrips	SU_TR	542.72	2,713.60
tblVehicleTrips	SU_TR	131.84	395.52
tblVehicleTrips	SU_TR	25.24	992.46
tblVehicleTrips	WD_TR	23.72	65.12
tblVehicleTrips	WD_TR	148.15	740.75
tblVehicleTrips	WD_TR	496.12	2,480.60
tblVehicleTrips	WD_TR	127.15	381.45
tblVehicleTrips	WD_TR	42.70	1,679.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	34.2337	74.1807	46.1340	0.2064	5.1000	1.9018	6.0617	1.4555	1.8304	2.3919	0.0000	21,513.0347	21,513.0347	1.8070	0.0000	21,558.2101
Maximum	**34.2337**	**74.1807**	**46.1340**	**0.2064**	**5.1000**	**1.9018**	**6.0617**	**1.4555**	**1.8304**	**2.3919**	**0.0000**	**21,513.0347**	**21,513.0347**	**1.8070**	**0.0000**	**21,558.2101**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	33.1104	69.7745	49.6816	0.2064	4.1323	0.1635	4.2958	1.2179	0.1579	1.3758	0.0000	21,513.0346	21,513.0346	1.8070	0.0000	21,558.2101
Maximum	**33.1104**	**69.7745**	**49.6816**	**0.2064**	**4.1323**	**0.1635**	**4.2958**	**1.2179**	**0.1579**	**1.3758**	**0.0000**	**21,513.0346**	**21,513.0346**	**1.8070**	**0.0000**	**21,558.2101**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**3.28**	**5.94**	**-7.69**	**0.00**	**18.98**	**91.40**	**29.13**	**16.32**	**91.37**	**42.48**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.8388	2.3000e-004	0.0247	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0526	0.0526	1.4000e-004		0.0561
Energy	0.0774	0.7035	0.5909	4.2200e-003		0.0535	0.0535		0.0535	0.0535		844.1649	844.1649	0.0162	0.0155	849.1814
Mobile	79.3336	535.5240	702.6183	2.8140	187.5542	1.9173	189.4715	50.1835	1.7983	51.9819		287,548.7421	287,548.7421	17.4760		287,985.6415
Total	**80.2498**	**536.2277**	**703.2339**	**2.8182**	**187.5542**	**1.9709**	**189.5251**	**50.1835**	**1.8519**	**52.0354**		**288,392.9596**	**288,392.9596**	**17.4923**	**0.0155**	**288,834.8790**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.8388	2.3000e-004	0.0247	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0526	0.0526	1.4000e-004		0.0561
Energy	0.0774	0.7035	0.5909	4.2200e-003		0.0535	0.0535		0.0535	0.0535		844.1649	844.1649	0.0162	0.0155	849.1814
Mobile	79.3336	535.5240	702.6183	2.8140	187.5542	1.9173	189.4715	50.1835	1.7983	51.9819		287,548.7421	287,548.7421	17.4760		287,985.6415
Total	**80.2498**	**536.2277**	**703.2339**	**2.8182**	**187.5542**	**1.9709**	**189.5251**	**50.1835**	**1.8519**	**52.0354**		**288,392.9596**	**288,392.9596**	**17.4923**	**0.0155**	**288,834.8790**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	2/1/2021	2/5/2021	5	5	
2	Grading	Grading	2/6/2021	5/6/2021	5	64	
3	Trenching	Trenching	5/7/2021	5/20/2021	5	10	
4	Building Construction	Building Construction	5/7/2021	9/14/2021	5	93	
5	Paving	Paving	9/15/2021	9/21/2021	5	5	
6	Architectural Coating	Architectural Coating	9/21/2021	9/30/2021	5	8	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 6.2

Acres of Paving: 6.05

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 48,510; Non-Residential Outdoor: 16,170; Striped Parking Area: 15,899 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Scrapers	3	8.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rollers	1	8.00	80	0.38
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	2	1.00	231	0.29
Building Construction	Forklifts	2	8.00	89	0.20
Building Construction	Generator Sets	6	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Architectural Coating	Air Compressors	2	8.00	78	0.48
Trenching	Excavators	1	8.00	158	0.38
Trenching	Tractors/Loaders/Backhoes	2	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	4	10.00	0.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	5	13.00	2.00	5,000.00	19.80	7.90	3.60	LD_Mix	HDT_Mix	HHDT
Trenching	3	6.00	0.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	13	122.00	24.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	620.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	24.00	0.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	2.9757	34.0042	23.2743	0.0486		1.3609	1.3609		1.2520	1.2520		4,704.6346	4,704.6346	1.5216		4,742.6740
Total	**2.9757**	**34.0042**	**23.2743**	**0.0486**	**0.0000**	**1.3609**	**1.3609**	**0.0000**	**1.2520**	**1.2520**		**4,704.6346**	**4,704.6346**	**1.5216**		**4,742.6740**

3.2 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0590	0.0354	0.4850	1.4300e-003	0.1505	8.7000e-004	0.1514	0.0399	8.0000e-004	0.0407		142.6509	142.6509	3.3500e-003		142.7347
Total	**0.0590**	**0.0354**	**0.4850**	**1.4300e-003**	**0.1505**	**8.7000e-004**	**0.1514**	**0.0399**	**8.0000e-004**	**0.0407**		**142.6509**	**142.6509**	**3.3500e-003**		**142.7347**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.8153	13.3784	26.5761	0.0486		0.0796	0.0796		0.0796	0.0796	0.0000	4,704.6346	4,704.6346	1.5216		4,742.6740
Total	**0.8153**	**13.3784**	**26.5761**	**0.0486**	**0.0000**	**0.0796**	**0.0796**	**0.0000**	**0.0796**	**0.0796**	**0.0000**	**4,704.6346**	**4,704.6346**	**1.5216**		**4,742.6740**

3.2 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0590	0.0354	0.4850	1.4300e-003	0.1165	8.7000e-004	0.1174	0.0316	8.0000e-004	0.0324		142.6509	142.6509	3.3500e-003		142.7347
Total	**0.0590**	**0.0354**	**0.4850**	**1.4300e-003**	**0.1165**	**8.7000e-004**	**0.1174**	**0.0316**	**8.0000e-004**	**0.0324**		**142.6509**	**142.6509**	**3.3500e-003**		**142.7347**

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1720	0.0000	0.1720	0.0216	0.0000	0.0216			0.0000			0.0000
Off-Road	1.2462	13.7938	11.4399	0.0206		0.6333	0.6333		0.5827	0.5827		1,997.7651	1,997.7651	0.6461		2,013.9181
Total	**1.2462**	**13.7938**	**11.4399**	**0.0206**	**0.1720**	**0.6333**	**0.8053**	**0.0216**	**0.5827**	**0.6042**		**1,997.7651**	**1,997.7651**	**0.6461**		**2,013.9181**

3.3 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1889	9.8103	0.9423	0.0200	0.2474	0.0113	0.2587	0.0679	0.0108	0.0788		2,115.3547	2,115.3547	0.2703		2,122.1132
Vendor	4.9300e-003	0.1927	0.0347	5.7000e-004	0.0147	4.0000e-004	0.0151	4.2200e-003	3.8000e-004	4.6000e-003		60.2247	60.2247	3.9900e-003		60.3245
Worker	0.0767	0.0461	0.6305	1.8600e-003	0.1957	1.1300e-003	0.1968	0.0519	1.0400e-003	0.0529		185.4461	185.4461	4.3600e-003		185.5552
Total	**0.2705**	**10.0491**	**1.6074**	**0.0224**	**0.4577**	**0.0128**	**0.4705**	**0.1240**	**0.0122**	**0.1363**		**2,361.0255**	**2,361.0255**	**0.2787**		**2,367.9928**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0671	0.0000	0.0671	8.4200e-003	0.0000	8.4200e-003			0.0000			0.0000
Off-Road	0.3700	7.8777	14.1018	0.0206		0.0337	0.0337		0.0337	0.0337	0.0000	1,997.7651	1,997.7651	0.6461		2,013.9181
Total	**0.3700**	**7.8777**	**14.1018**	**0.0206**	**0.0671**	**0.0337**	**0.1008**	**8.4200e-003**	**0.0337**	**0.0421**	**0.0000**	**1,997.7651**	**1,997.7651**	**0.6461**		**2,013.9181**

3.3 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1889	9.8103	0.9423	0.0200	0.1990	0.0113	0.2103	0.0561	0.0108	0.0669		2,115.3547	2,115.3547	0.2703		2,122.1132
Vendor	4.9300e-003	0.1927	0.0347	5.7000e-004	0.0119	4.0000e-004	0.0123	3.5500e-003	3.8000e-004	3.9300e-003		60.2247	60.2247	3.9900e-003		60.3245
Worker	0.0767	0.0461	0.6305	1.8600e-003	0.1514	1.1300e-003	0.1526	0.0410	1.0400e-003	0.0421		185.4461	185.4461	4.3600e-003		185.5552
Total	**0.2705**	**10.0491**	**1.6074**	**0.0224**	**0.3624**	**0.0128**	**0.3752**	**0.1006**	**0.0122**	**0.1129**		**2,361.0255**	**2,361.0255**	**0.2787**		**2,367.9928**

3.4 Trenching - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6034	5.9404	7.7903	0.0114		0.3276	0.3276		0.3014	0.3014		1,102.0534	1,102.0534	0.3564		1,110.9640
Total	**0.6034**	**5.9404**	**7.7903**	**0.0114**		**0.3276**	**0.3276**		**0.3014**	**0.3014**		**1,102.0534**	**1,102.0534**	**0.3564**		**1,110.9640**

3.4 Trenching - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0354	0.0213	0.2910	8.6000e-004	0.0903	5.2000e-004	0.0908	0.0240	4.8000e-004	0.0244		85.5905	85.5905	2.0100e-003		85.6408
Total	**0.0354**	**0.0213**	**0.2910**	**8.6000e-004**	**0.0903**	**5.2000e-004**	**0.0908**	**0.0240**	**4.8000e-004**	**0.0244**		**85.5905**	**85.5905**	**2.0100e-003**		**85.6408**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2026	4.9863	8.6028	0.0114		0.0186	0.0186		0.0186	0.0186	0.0000	1,102.0534	1,102.0534	0.3564		1,110.9640
Total	**0.2026**	**4.9863**	**8.6028**	**0.0114**		**0.0186**	**0.0186**		**0.0186**	**0.0186**	**0.0000**	**1,102.0534**	**1,102.0534**	**0.3564**		**1,110.9640**

3.4 Trenching - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0354	0.0213	0.2910	8.6000e-004	0.0699	5.2000e-004	0.0704	0.0189	4.8000e-004	0.0194		85.5905	85.5905	2.0100e-003		85.6408
Total	**0.0354**	**0.0213**	**0.2910**	**8.6000e-004**	**0.0699**	**5.2000e-004**	**0.0704**	**0.0189**	**4.8000e-004**	**0.0194**		**85.5905**	**85.5905**	**2.0100e-003**		**85.6408**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.0681	28.2550	31.7204	0.0533		1.5584	1.5584		1.5142	1.5142		5,076.6540	5,076.6540	0.6236		5,092.2450
Total	**3.0681**	**28.2550**	**31.7204**	**0.0533**		**1.5584**	**1.5584**		**1.5142**	**1.5142**		**5,076.6540**	**5,076.6540**	**0.6236**		**5,092.2450**

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0592	2.3126	0.4157	6.8500e-003	0.1759	4.7700e-003	0.1806	0.0506	4.5700e-003	0.0552		722.6965	722.6965	0.0479		723.8935
Worker	0.7196	0.4322	5.9166	0.0175	1.8364	0.0106	1.8469	0.4870	9.7200e-003	0.4967		1,740.3407	1,740.3407	0.0409		1,741.3637
Total	**0.7787**	**2.7448**	**6.3323**	**0.0243**	**2.0122**	**0.0153**	**2.0276**	**0.5376**	**0.0143**	**0.5519**		**2,463.0372**	**2,463.0372**	**0.0888**		**2,465.2573**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0252	19.8652	34.4555	0.0533		0.0752	0.0752		0.0752	0.0752	0.0000	5,076.6540	5,076.6540	0.6236		5,092.2450
Total	**1.0252**	**19.8652**	**34.4555**	**0.0533**		**0.0752**	**0.0752**		**0.0752**	**0.0752**	**0.0000**	**5,076.6540**	**5,076.6540**	**0.6236**		**5,092.2450**

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0592	2.3126	0.4157	6.8500e-003	0.1433	4.7700e-003	0.1481	0.0426	4.5700e-003	0.0472		722.6965	722.6965	0.0479		723.8935
Worker	0.7196	0.4322	5.9166	0.0175	1.4212	0.0106	1.4318	0.3851	9.7200e-003	0.3948		1,740.3407	1,740.3407	0.0409		1,741.3637
Total	**0.7787**	**2.7448**	**6.3323**	**0.0243**	**1.5645**	**0.0153**	**1.5798**	**0.4277**	**0.0143**	**0.4420**		**2,463.0372**	**2,463.0372**	**0.0888**		**2,465.2573**

3.6 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9998	10.2351	11.1861	0.0162		0.5842	0.5842		0.5375	0.5375		1,565.0388	1,565.0388	0.5062		1,577.6929
Paving	2.9554					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**3.9551**	**10.2351**	**11.1861**	**0.0162**		**0.5842**	**0.5842**		**0.5375**	**0.5375**		**1,565.0388**	**1,565.0388**	**0.5062**		**1,577.6929**

3.6 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.5281	59.7429	10.7400	0.1770	4.5431	0.1233	4.6664	1.3078	0.1180	1.4257		18,669.6595	18,669.6595	1.2369		18,700.5829
Worker	0.0767	0.0461	0.6305	1.8600e-003	0.1957	1.1300e-003	0.1968	0.0519	1.0400e-003	0.0529		185.4461	185.4461	4.3600e-003		185.5552
Total	**1.6048**	**59.7889**	**11.3705**	**0.1789**	**4.7388**	**0.1245**	**4.8632**	**1.3597**	**0.1190**	**1.4787**		**18,855.1057**	**18,855.1057**	**1.2413**		**18,886.1381**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3150	7.0744	12.2148	0.0162		0.0264	0.0264		0.0264	0.0264	0.0000	1,565.0388	1,565.0388	0.5062		1,577.6929
Paving	2.9554					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**3.2704**	**7.0744**	**12.2148**	**0.0162**		**0.0264**	**0.0264**		**0.0264**	**0.0264**	**0.0000**	**1,565.0388**	**1,565.0388**	**0.5062**		**1,577.6929**

3.6 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.5281	59.7429	10.7400	0.1770	3.7012	0.1233	3.8246	1.1012	0.1180	1.2191		18,669.6595	18,669.6595	1.2369		18,700.5829
Worker	0.0767	0.0461	0.6305	1.8600e-003	0.1514	1.1300e-003	0.1526	0.0410	1.0400e-003	0.0421		185.4461	185.4461	4.3600e-003		185.5552
Total	**1.6048**	**59.7889**	**11.3705**	**0.1789**	**3.8527**	**0.1245**	**3.9771**	**1.1422**	**0.1190**	**1.2612**		**18,855.1057**	**18,855.1057**	**1.2413**		**18,886.1381**

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	27.9485					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.5837	4.0716	4.8468	7.9200e-003		0.2509	0.2509		0.2509	0.2509		750.5281	750.5281	0.0515		751.8158
Total	**28.5322**	**4.0716**	**4.8468**	**7.9200e-003**		**0.2509**	**0.2509**		**0.2509**	**0.2509**		**750.5281**	**750.5281**	**0.0515**		**751.8158**

3.7 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1416	0.0850	1.1639	3.4400e-003	0.3613	2.0800e-003	0.3633	0.0958	1.9100e-003	0.0977		342.3621	342.3621	8.0500e-003		342.5634
Total	**0.1416**	**0.0850**	**1.1639**	**3.4400e-003**	**0.3613**	**2.0800e-003**	**0.3633**	**0.0958**	**1.9100e-003**	**0.0977**		**342.3621**	**342.3621**	**8.0500e-003**		**342.5634**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	27.9485					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1453	2.8262	4.8864	7.9200e-003		0.0106	0.0106		0.0106	0.0106	0.0000	750.5281	750.5281	0.0515		751.8158
Total	**28.0937**	**2.8262**	**4.8864**	**7.9200e-003**		**0.0106**	**0.0106**		**0.0106**	**0.0106**	**0.0000**	**750.5281**	**750.5281**	**0.0515**		**751.8158**

3.7 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1416	0.0850	1.1639	3.4400e-003	0.2796	2.0800e-003	0.2817	0.0758	1.9100e-003	0.0777		342.3621	342.3621	8.0500e-003		342.5634
Total	**0.1416**	**0.0850**	**1.1639**	**3.4400e-003**	**0.2796**	**2.0800e-003**	**0.2817**	**0.0758**	**1.9100e-003**	**0.0777**		**342.3621**	**342.3621**	**8.0500e-003**		**342.5634**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	79.3336	535.5240	702.6183	2.8140	187.5542	1.9173	189.4715	50.1835	1.7983	51.9819		287,548.7421	287,548.7421	17.4760		287,985.6415
Unmitigated	79.3336	535.5240	702.6183	2.8140	187.5542	1.9173	189.4715	50.1835	1.7983	51.9819		287,548.7421	287,548.7421	17.4760		287,985.6415

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Automobile Care Center	260.48	260.48	130.44	372,571	372,571
Automobile Care Center	325.60	325.60	163.05	465,713	465,713
Bank (with Drive-Through)	2,570.40	1,497.65	553.47	2,693,921	2,693,921
Fast Food Restaurant with Drive Thru	12,403.00	18,050.75	13568.00	16,697,492	16,697,492
High Turnover (Sit Down Restaurant)	1,144.35	1,425.33	1186.56	1,910,776	1,910,776
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	19,929.73	23,322.89	11780.50	48,668,752	48,668,752
Total	36,633.56	44,882.70	27,382.02	70,809,224	70,809,224

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Automobile Care Center	18.50	10.10	7.90	33.00	48.00	19.00	21	51	28
Automobile Care Center	18.50	10.10	7.90	33.00	48.00	19.00	21	51	28
Bank (with Drive-Through)	18.50	10.10	7.90	6.60	74.40	19.00	27	26	47
Fast Food Restaurant with Drive	18.50	10.10	7.90	2.20	78.80	19.00	29	21	50
High Turnover (Sit Down	18.50	10.10	7.90	8.50	72.50	19.00	37	20	43
Other Asphalt Surfaces	18.50	10.10	7.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	18.50	10.10	7.90	0.00	0.00	0.00	0	0	0
Parking Lot	18.50	10.10	7.90	0.00	0.00	0.00	0	0	0
Regional Shopping Center	18.50	10.10	7.90	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Automobile Care Center	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Bank (with Drive-Through)	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Fast Food Restaurant with Drive Thru	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
High Turnover (Sit Down Restaurant)	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Other Asphalt Surfaces	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Other Non-Asphalt Surfaces	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Parking Lot	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Regional Shopping Center	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0774	0.7035	0.5909	4.2200e-003		0.0535	0.0535		0.0535	0.0535		844.1649	844.1649	0.0162	0.0155	849.1814
NaturalGas Unmitigated	0.0774	0.7035	0.5909	4.2200e-003		0.0535	0.0535		0.0535	0.0535		844.1649	844.1649	0.0162	0.0155	849.1814

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Automobile Care Center	356.055	3.8400e-003	0.0349	0.0293	2.1000e-004		2.6500e-003	2.6500e-003		2.6500e-003	2.6500e-003		41.8888	41.8888	8.0000e-004	7.7000e-004	42.1377
Automobile Care Center	445.068	4.8000e-003	0.0436	0.0367	2.6000e-004		3.3200e-003	3.3200e-003		3.3200e-003	3.3200e-003		52.3610	52.3610	1.0000e-003	9.6000e-004	52.6722
Bank (with Drive-Through)	308.878	3.3300e-003	0.0303	0.0254	1.8000e-004		2.3000e-003	2.3000e-003		2.3000e-003	2.3000e-003		36.3385	36.3385	7.0000e-004	6.7000e-004	36.5545
Fast Food Restaurant with Drive Thru	3745.75	0.0404	0.3672	0.3085	2.2000e-003		0.0279	0.0279		0.0279	0.0279		440.6769	440.6769	8.4500e-003	8.0800e-003	443.2956
High Turnover (Sit Down Restaurant)	2247.45	0.0242	0.2203	0.1851	1.3200e-003		0.0168	0.0168		0.0168	0.0168		264.4061	264.4061	5.0700e-003	4.8500e-003	265.9774
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	72.1956	7.8000e-004	7.0800e-003	5.9500e-003	4.0000e-005		5.4000e-004	5.4000e-004		5.4000e-004	5.4000e-004		8.4936	8.4936	1.6000e-004	1.6000e-004	8.5441
Total		**0.0774**	**0.7035**	**0.5909**	**4.2100e-003**		**0.0535**	**0.0535**		**0.0535**	**0.0535**		**844.1649**	**844.1649**	**0.0162**	**0.0155**	**849.1814**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Automobile Care Center	0.356055	3.8400e-003	0.0349	0.0293	2.1000e-004		2.6500e-003	2.6500e-003		2.6500e-003	2.6500e-003		41.8888	41.8888	8.0000e-004	7.7000e-004	42.1377
Automobile Care Center	0.445068	4.8000e-003	0.0436	0.0367	2.6000e-004		3.3200e-003	3.3200e-003		3.3200e-003	3.3200e-003		52.3610	52.3610	1.0000e-003	9.6000e-004	52.6722
Bank (with Drive-Through)	0.308878	3.3300e-003	0.0303	0.0254	1.8000e-004		2.3000e-003	2.3000e-003		2.3000e-003	2.3000e-003		36.3385	36.3385	7.0000e-004	6.7000e-004	36.5545
Fast Food Restaurant with Drive Thru	3.74575	0.0404	0.3672	0.3085	2.2000e-003		0.0279	0.0279		0.0279	0.0279		440.6769	440.6769	8.4500e-003	8.0800e-003	443.2956
High Turnover (Sit Down Restaurant)	2.24745	0.0242	0.2203	0.1851	1.3200e-003		0.0168	0.0168		0.0168	0.0168		264.4061	264.4061	5.0700e-003	4.8500e-003	265.9774
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0.0721956	7.8000e-004	7.0800e-003	5.9500e-003	4.0000e-005		5.4000e-004	5.4000e-004		5.4000e-004	5.4000e-004		8.4936	8.4936	1.6000e-004	1.6000e-004	8.5441
Total		**0.0774**	**0.7035**	**0.5909**	**4.2100e-003**		**0.0535**	**0.0535**		**0.0535**	**0.0535**		**844.1649**	**844.1649**	**0.0162**	**0.0155**	**849.1814**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.8388	2.3000e-004	0.0247	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0526	0.0526	1.4000e-004		0.0561
Unmitigated	0.8388	2.3000e-004	0.0247	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0526	0.0526	1.4000e-004		0.0561

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1023					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.7342					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.3000e-003	2.3000e-004	0.0247	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0526	0.0526	1.4000e-004		0.0561
Total	**0.8388**	**2.3000e-004**	**0.0247**	**0.0000**		**9.0000e-005**	**9.0000e-005**		**9.0000e-005**	**9.0000e-005**		**0.0526**	**0.0526**	**1.4000e-004**		**0.0561**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1023					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.7342					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.3000e-003	2.3000e-004	0.0247	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0526	0.0526	1.4000e-004		0.0561
Total	**0.8388**	**2.3000e-004**	**0.0247**	**0.0000**		**9.0000e-005**	**9.0000e-005**		**9.0000e-005**	**9.0000e-005**		**0.0526**	**0.0526**	**1.4000e-004**		**0.0561**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Curci Vineyard III Mit Tier4 i

Riverside-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Bank (with Drive-Through)	3.47	1000sqft	0.08	3,470.00	0
Other Asphalt Surfaces	3.80	Acre	3.80	165,528.00	0
Other Non-Asphalt Surfaces	0.41	Acre	0.41	17,859.60	0
Parking Lot	204.00	Space	1.84	81,600.00	0
Fast Food Restaurant with Drive Thru	5.00	1000sqft	0.11	5,000.00	0
High Turnover (Sit Down Restaurant)	3.00	1000sqft	0.07	3,000.00	0
Automobile Care Center	4.00	1000sqft	0.09	4,000.00	0
Automobile Care Center	5.00	1000sqft	0.11	5,000.00	0
Regional Shopping Center	11.87	1000sqft	0.27	11,870.00	0

1.2 Other Project Characteristics

Urbanization	Rural	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	573.36	**CH4 Intensity (lb/MWhr)**	0.024	**N2O Intensity (lb/MWhr)**	0.005

1.3 User Entered Comments & Non-Default Data

Curci Vineyard III Mit Tier4 i - Riverside-South Coast County, Winter

Project Characteristics - SCE RPS adjusted to year 2021 based on 2050 RPS goal of 50%.

Land Use - Land use acreages provided by applicant.

Construction Phase - Construction phase schedule provided by applicant.

Off-road Equipment - Equipment assumptions provided by applicant.

Off-road Equipment - Equipment assumptions provided by applicant.

Off-road Equipment - Equipment assumptions provided by applicant.

Off-road Equipment - Equipment assumptions provided by applicant.

Off-road Equipment - Equipment assumptions provided by applicant.

Trips and VMT - Soil export based on haul truck capacity of 14 cy. Vendor trip delivery assumptions from applicant.

Grading - Soil export and grading acreages from project applicant.

Architectural Coating - Applicant use low VOC paints for interior and exterior.

Vehicle Trips - Based on project specific traffic report, weekend trip rates scaled based on CalEEMod defaults.

Energy Use -

Construction Off-road Equipment Mitigation - Dust control measures. MM-AQ-1 Tier 4 interim Equiment for equipment > 75 hp

Waste Mitigation - AB 341

Off-road Equipment - Data provided by applicant.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	10.00	5.00
tblConstructionPhase	NumDays	20.00	64.00
tblConstructionPhase	NumDays	230.00	93.00
tblConstructionPhase	NumDays	20.00	5.00
tblConstructionPhase	NumDays	20.00	8.00
tblGrading	AcresOfGrading	32.00	6.20
tblGrading	AcresOfGrading	15.00	0.00
tblGrading	MaterialExported	0.00	35,000.00
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	7.00	1.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.024
tblProjectCharacteristics	CO2IntensityFactor	702.44	573.36
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.005
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripLength	20.00	3.60
tblTripsAndVMT	HaulingTripNumber	4,375.00	5,000.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	49.00	24.00
tblTripsAndVMT	VendorTripNumber	0.00	620.00
tblTripsAndVMT	WorkerTripNumber	8.00	6.00
tblVehicleTrips	ST_TR	23.72	65.12
tblVehicleTrips	ST_TR	86.32	431.60
tblVehicleTrips	ST_TR	722.03	3,610.15
tblVehicleTrips	ST_TR	158.37	475.11
tblVehicleTrips	ST_TR	49.97	1,964.86
tblVehicleTrips	SU_TR	11.88	32.61
tblVehicleTrips	SU_TR	31.90	159.50

tblVehicleTrips	SU_TR	542.72	2,713.60
tblVehicleTrips	SU_TR	131.84	395.52
tblVehicleTrips	SU_TR	25.24	992.46
tblVehicleTrips	WD_TR	23.72	65.12
tblVehicleTrips	WD_TR	148.15	740.75
tblVehicleTrips	WD_TR	496.12	2,480.60
tblVehicleTrips	WD_TR	127.15	381.45
tblVehicleTrips	WD_TR	42.70	1,679.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	34.3247	73.8168	44.9551	0.1999	5.1000	1.9019	6.0650	1.4555	1.8305	2.3920	0.0000	20,821.3061	20,821.3061	1.9437	0.0000	20,869.8993
Maximum	**34.3247**	**73.8168**	**44.9551**	**0.1999**	**5.1000**	**1.9019**	**6.0650**	**1.4555**	**1.8305**	**2.3920**	**0.0000**	**20,821.3061**	**20,821.3061**	**1.9437**	**0.0000**	**20,869.8993**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	33.2015	69.4107	48.5026	0.1999	4.1323	0.1668	4.2990	1.2179	0.1610	1.3789	0.0000	20,821.3061	20,821.3061	1.9437	0.0000	20,869.8993
Maximum	**33.2015**	**69.4107**	**48.5026**	**0.1999**	**4.1323**	**0.1668**	**4.2990**	**1.2179**	**0.1610**	**1.3789**	**0.0000**	**20,821.3061**	**20,821.3061**	**1.9437**	**0.0000**	**20,869.8993**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**3.27**	**5.97**	**-7.89**	**0.00**	**18.98**	**91.23**	**29.12**	**16.32**	**91.20**	**42.35**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.8388	2.3000e-004	0.0247	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0526	0.0526	1.4000e-004		0.0561
Energy	0.0774	0.7035	0.5909	4.2200e-003		0.0535	0.0535		0.0535	0.0535		844.1649	844.1649	0.0162	0.0155	849.1814
Mobile	66.2504	530.2328	634.2740	2.5870	187.5542	1.9490	189.5032	50.1835	1.8286	52.0121		264,592.7005	264,592.7005	18.5182		265,055.6564
Total	**67.1666**	**530.9365**	**634.8896**	**2.5912**	**187.5542**	**2.0025**	**189.5567**	**50.1835**	**1.8822**	**52.0657**		**265,436.9181**	**265,436.9181**	**18.5346**	**0.0155**	**265,904.8940**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.8388	2.3000e-004	0.0247	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0526	0.0526	1.4000e-004		0.0561
Energy	0.0774	0.7035	0.5909	4.2200e-003		0.0535	0.0535		0.0535	0.0535		844.1649	844.1649	0.0162	0.0155	849.1814
Mobile	66.2504	530.2328	634.2740	2.5870	187.5542	1.9490	189.5032	50.1835	1.8286	52.0121		264,592.7005	264,592.7005	18.5182		265,055.6564
Total	**67.1666**	**530.9365**	**634.8896**	**2.5912**	**187.5542**	**2.0025**	**189.5567**	**50.1835**	**1.8822**	**52.0657**		**265,436.9181**	**265,436.9181**	**18.5346**	**0.0155**	**265,904.8940**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	2/1/2021	2/5/2021	5	5	
2	Grading	Grading	2/6/2021	5/6/2021	5	64	
3	Trenching	Trenching	5/7/2021	5/20/2021	5	10	
4	Building Construction	Building Construction	5/7/2021	9/14/2021	5	93	
5	Paving	Paving	9/15/2021	9/21/2021	5	5	
6	Architectural Coating	Architectural Coating	9/21/2021	9/30/2021	5	8	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 6.2

Acres of Paving: 6.05

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 48,510; Non-Residential Outdoor: 16,170; Striped Parking Area: 15,899 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Scrapers	3	8.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rollers	1	8.00	80	0.38
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	2	1.00	231	0.29
Building Construction	Forklifts	2	8.00	89	0.20
Building Construction	Generator Sets	6	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Architectural Coating	Air Compressors	2	8.00	78	0.48
Trenching	Excavators	1	8.00	158	0.38
Trenching	Tractors/Loaders/Backhoes	2	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	4	10.00	0.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	5	13.00	2.00	5,000.00	19.80	7.90	3.60	LD_Mix	HDT_Mix	HHDT
Trenching	3	6.00	0.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	13	122.00	24.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	620.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	24.00	0.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	2.9757	34.0042	23.2743	0.0486		1.3609	1.3609		1.2520	1.2520		4,704.6346	4,704.6346	1.5216		4,742.6740
Total	**2.9757**	**34.0042**	**23.2743**	**0.0486**	**0.0000**	**1.3609**	**1.3609**	**0.0000**	**1.2520**	**1.2520**		**4,704.6346**	**4,704.6346**	**1.5216**		**4,742.6740**

3.2 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0592	0.0366	0.3872	1.2800e-003	0.1505	8.7000e-004	0.1514	0.0399	8.0000e-004	0.0407		127.9199	127.9199	2.9000e-003		127.9923
Total	**0.0592**	**0.0366**	**0.3872**	**1.2800e-003**	**0.1505**	**8.7000e-004**	**0.1514**	**0.0399**	**8.0000e-004**	**0.0407**		**127.9199**	**127.9199**	**2.9000e-003**		**127.9923**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.8153	13.3784	26.5761	0.0486		0.0796	0.0796		0.0796	0.0796	0.0000	4,704.6346	4,704.6346	1.5216		4,742.6740
Total	**0.8153**	**13.3784**	**26.5761**	**0.0486**	**0.0000**	**0.0796**	**0.0796**	**0.0000**	**0.0796**	**0.0796**	**0.0000**	**4,704.6346**	**4,704.6346**	**1.5216**		**4,742.6740**

3.2 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0592	0.0366	0.3872	1.2800e-003	0.1165	8.7000e-004	0.1174	0.0316	8.0000e-004	0.0324		127.9199	127.9199	2.9000e-003		127.9923
Total	**0.0592**	**0.0366**	**0.3872**	**1.2800e-003**	**0.1165**	**8.7000e-004**	**0.1174**	**0.0316**	**8.0000e-004**	**0.0324**		**127.9199**	**127.9199**	**2.9000e-003**		**127.9923**

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1720	0.0000	0.1720	0.0216	0.0000	0.0216			0.0000			0.0000
Off-Road	1.2462	13.7938	11.4399	0.0206		0.6333	0.6333		0.5827	0.5827		1,997.7651	1,997.7651	0.6461		2,013.9181
Total	**1.2462**	**13.7938**	**11.4399**	**0.0206**	**0.1720**	**0.6333**	**0.8053**	**0.0216**	**0.5827**	**0.6042**		**1,997.7651**	**1,997.7651**	**0.6461**		**2,013.9181**

3.3 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2088	9.5506	1.3200	0.0185	0.2474	0.0121	0.2594	0.0679	0.0116	0.0795		1,958.4561	1,958.4561	0.3045		1,966.0680
Vendor	5.2200e-003	0.1915	0.0407	5.5000e-004	0.0147	4.1000e-004	0.0151	4.2200e-003	3.9000e-004	4.6100e-003		58.1692	58.1692	4.4400e-003		58.2801
Worker	0.0769	0.0476	0.5034	1.6700e-003	0.1957	1.1300e-003	0.1968	0.0519	1.0400e-003	0.0529		166.2958	166.2958	3.7700e-003		166.3900
Total	**0.2910**	**9.7898**	**1.8641**	**0.0207**	**0.4577**	**0.0136**	**0.4713**	**0.1240**	**0.0130**	**0.1370**		**2,182.9210**	**2,182.9210**	**0.3127**		**2,190.7381**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0671	0.0000	0.0671	8.4200e-003	0.0000	8.4200e-003			0.0000			0.0000
Off-Road	0.3700	7.8777	14.1018	0.0206		0.0337	0.0337		0.0337	0.0337	0.0000	1,997.7651	1,997.7651	0.6461		2,013.9181
Total	**0.3700**	**7.8777**	**14.1018**	**0.0206**	**0.0671**	**0.0337**	**0.1008**	**8.4200e-003**	**0.0337**	**0.0421**	**0.0000**	**1,997.7651**	**1,997.7651**	**0.6461**		**2,013.9181**

3.3 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2088	9.5506	1.3200	0.0185	0.1990	0.0121	0.2111	0.0561	0.0116	0.0676		1,958.4561	1,958.4561	0.3045		1,966.0680
Vendor	5.2200e-003	0.1915	0.0407	5.5000e-004	0.0119	4.1000e-004	0.0124	3.5500e-003	3.9000e-004	3.9400e-003		58.1692	58.1692	4.4400e-003		58.2801
Worker	0.0769	0.0476	0.5034	1.6700e-003	0.1514	1.1300e-003	0.1526	0.0410	1.0400e-003	0.0421		166.2958	166.2958	3.7700e-003		166.3900
Total	**0.2910**	**9.7898**	**1.8641**	**0.0207**	**0.3624**	**0.0136**	**0.3760**	**0.1006**	**0.0130**	**0.1136**		**2,182.9210**	**2,182.9210**	**0.3127**		**2,190.7381**

3.4 Trenching - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6034	5.9404	7.7903	0.0114		0.3276	0.3276		0.3014	0.3014		1,102.0534	1,102.0534	0.3564		1,110.9640
Total	**0.6034**	**5.9404**	**7.7903**	**0.0114**		**0.3276**	**0.3276**		**0.3014**	**0.3014**		**1,102.0534**	**1,102.0534**	**0.3564**		**1,110.9640**

3.4 Trenching - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0355	0.0220	0.2323	7.7000e-004	0.0903	5.2000e-004	0.0908	0.0240	4.8000e-004	0.0244		76.7519	76.7519	1.7400e-003		76.7954
Total	**0.0355**	**0.0220**	**0.2323**	**7.7000e-004**	**0.0903**	**5.2000e-004**	**0.0908**	**0.0240**	**4.8000e-004**	**0.0244**		**76.7519**	**76.7519**	**1.7400e-003**		**76.7954**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2026	4.9863	8.6028	0.0114		0.0186	0.0186		0.0186	0.0186	0.0000	1,102.0534	1,102.0534	0.3564		1,110.9640
Total	**0.2026**	**4.9863**	**8.6028**	**0.0114**		**0.0186**	**0.0186**		**0.0186**	**0.0186**	**0.0000**	**1,102.0534**	**1,102.0534**	**0.3564**		**1,110.9640**

3.4 Trenching - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0355	0.0220	0.2323	7.7000e-004	0.0699	5.2000e-004	0.0704	0.0189	4.8000e-004	0.0194		76.7519	76.7519	1.7400e-003		76.7954
Total	**0.0355**	**0.0220**	**0.2323**	**7.7000e-004**	**0.0699**	**5.2000e-004**	**0.0704**	**0.0189**	**4.8000e-004**	**0.0194**		**76.7519**	**76.7519**	**1.7400e-003**		**76.7954**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.0681	28.2550	31.7204	0.0533		1.5584	1.5584		1.5142	1.5142		5,076.6540	5,076.6540	0.6236		5,092.2450
Total	**3.0681**	**28.2550**	**31.7204**	**0.0533**		**1.5584**	**1.5584**		**1.5142**	**1.5142**		**5,076.6540**	**5,076.6540**	**0.6236**		**5,092.2450**

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0627	2.2984	0.4880	6.6200e-003	0.1759	4.9000e-003	0.1808	0.0506	4.6900e-003	0.0553		698.0298	698.0298	0.0532		699.3607
Worker	0.7218	0.4469	4.7240	0.0157	1.8364	0.0106	1.8469	0.4870	9.7200e-003	0.4967		1,560.6222	1,560.6222	0.0354		1,561.5060
Total	**0.7844**	**2.7453**	**5.2120**	**0.0223**	**2.0122**	**0.0155**	**2.0277**	**0.5376**	**0.0144**	**0.5520**		**2,258.6520**	**2,258.6520**	**0.0886**		**2,260.8668**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0252	19.8652	34.4555	0.0533		0.0752	0.0752		0.0752	0.0752	0.0000	5,076.6540	5,076.6540	0.6236		5,092.2450
Total	**1.0252**	**19.8652**	**34.4555**	**0.0533**		**0.0752**	**0.0752**		**0.0752**	**0.0752**	**0.0000**	**5,076.6540**	**5,076.6540**	**0.6236**		**5,092.2450**

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0627	2.2984	0.4880	6.6200e-003	0.1433	4.9000e-003	0.1482	0.0426	4.6900e-003	0.0473		698.0298	698.0298	0.0532		699.3607
Worker	0.7218	0.4469	4.7240	0.0157	1.4212	0.0106	1.4318	0.3851	9.7200e-003	0.3948		1,560.6222	1,560.6222	0.0354		1,561.5060
Total	**0.7844**	**2.7453**	**5.2120**	**0.0223**	**1.5645**	**0.0155**	**1.5799**	**0.4277**	**0.0144**	**0.4421**		**2,258.6520**	**2,258.6520**	**0.0886**		**2,260.8668**

3.6 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9998	10.2351	11.1861	0.0162		0.5842	0.5842		0.5375	0.5375		1,565.0388	1,565.0388	0.5062		1,577.6929
Paving	2.9554					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**3.9551**	**10.2351**	**11.1861**	**0.0162**		**0.5842**	**0.5842**		**0.5375**	**0.5375**		**1,565.0388**	**1,565.0388**	**0.5062**		**1,577.6929**

3.6 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.6185	59.3745	12.6075	0.1710	4.5431	0.1266	4.6697	1.3078	0.1211	1.4289		18,032.4357	18,032.4357	1.3753		18,066.8191
Worker	0.0769	0.0476	0.5034	1.6700e-003	0.1957	1.1300e-003	0.1968	0.0519	1.0400e-003	0.0529		166.2958	166.2958	3.7700e-003		166.3900
Total	**1.6954**	**59.4221**	**13.1109**	**0.1727**	**4.7388**	**0.1277**	**4.8665**	**1.3597**	**0.1221**	**1.4818**		**18,198.7316**	**18,198.7316**	**1.3791**		**18,233.2091**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3150	7.0744	12.2148	0.0162		0.0264	0.0264		0.0264	0.0264	0.0000	1,565.0388	1,565.0388	0.5062		1,577.6929
Paving	2.9554					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**3.2704**	**7.0744**	**12.2148**	**0.0162**		**0.0264**	**0.0264**		**0.0264**	**0.0264**	**0.0000**	**1,565.0388**	**1,565.0388**	**0.5062**		**1,577.6929**

3.6 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.6185	59.3745	12.6075	0.1710	3.7012	0.1266	3.8278	1.1012	0.1211	1.2222		18,032.4357	18,032.4357	1.3753		18,066.8191
Worker	0.0769	0.0476	0.5034	1.6700e-003	0.1514	1.1300e-003	0.1526	0.0410	1.0400e-003	0.0421		166.2958	166.2958	3.7700e-003		166.3900
Total	**1.6954**	**59.4221**	**13.1109**	**0.1727**	**3.8527**	**0.1277**	**3.9804**	**1.1422**	**0.1221**	**1.2643**		**18,198.7316**	**18,198.7316**	**1.3791**		**18,233.2091**

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	27.9485					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.5837	4.0716	4.8468	7.9200e-003		0.2509	0.2509		0.2509	0.2509		750.5281	750.5281	0.0515		751.8158
Total	**28.5322**	**4.0716**	**4.8468**	**7.9200e-003**		**0.2509**	**0.2509**		**0.2509**	**0.2509**		**750.5281**	**750.5281**	**0.0515**		**751.8158**

3.7 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1420	0.0879	0.9293	3.0800e-003	0.3613	2.0800e-003	0.3633	0.0958	1.9100e-003	0.0977		307.0077	307.0077	6.9500e-003		307.1815
Total	**0.1420**	**0.0879**	**0.9293**	**3.0800e-003**	**0.3613**	**2.0800e-003**	**0.3633**	**0.0958**	**1.9100e-003**	**0.0977**		**307.0077**	**307.0077**	**6.9500e-003**		**307.1815**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	27.9485					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1453	2.8262	4.8864	7.9200e-003		0.0106	0.0106		0.0106	0.0106	0.0000	750.5281	750.5281	0.0515		751.8158
Total	**28.0937**	**2.8262**	**4.8864**	**7.9200e-003**		**0.0106**	**0.0106**		**0.0106**	**0.0106**	**0.0000**	**750.5281**	**750.5281**	**0.0515**		**751.8158**

3.7 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1420	0.0879	0.9293	3.0800e-003	0.2796	2.0800e-003	0.2817	0.0758	1.9100e-003	0.0777		307.0077	307.0077	6.9500e-003		307.1815
Total	**0.1420**	**0.0879**	**0.9293**	**3.0800e-003**	**0.2796**	**2.0800e-003**	**0.2817**	**0.0758**	**1.9100e-003**	**0.0777**		**307.0077**	**307.0077**	**6.9500e-003**		**307.1815**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	66.2504	530.2328	634.2740	2.5870	187.5542	1.9490	189.5032	50.1835	1.8286	52.0121		264,592.7005	264,592.7005	18.5182		265,055.6564
Unmitigated	66.2504	530.2328	634.2740	2.5870	187.5542	1.9490	189.5032	50.1835	1.8286	52.0121		264,592.7005	264,592.7005	18.5182		265,055.6564

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Automobile Care Center	260.48	260.48	130.44	372,571	372,571
Automobile Care Center	325.60	325.60	163.05	465,713	465,713
Bank (with Drive-Through)	2,570.40	1,497.65	553.47	2,693,921	2,693,921
Fast Food Restaurant with Drive Thru	12,403.00	18,050.75	13568.00	16,697,492	16,697,492
High Turnover (Sit Down Restaurant)	1,144.35	1,425.33	1186.56	1,910,776	1,910,776
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	19,929.73	23,322.89	11780.50	48,668,752	48,668,752
Total	36,633.56	44,882.70	27,382.02	70,809,224	70,809,224

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Automobile Care Center	18.50	10.10	7.90	33.00	48.00	19.00	21	51	28
Automobile Care Center	18.50	10.10	7.90	33.00	48.00	19.00	21	51	28
Bank (with Drive-Through)	18.50	10.10	7.90	6.60	74.40	19.00	27	26	47
Fast Food Restaurant with Drive	18.50	10.10	7.90	2.20	78.80	19.00	29	21	50
High Turnover (Sit Down	18.50	10.10	7.90	8.50	72.50	19.00	37	20	43
Other Asphalt Surfaces	18.50	10.10	7.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	18.50	10.10	7.90	0.00	0.00	0.00	0	0	0
Parking Lot	18.50	10.10	7.90	0.00	0.00	0.00	0	0	0
Regional Shopping Center	18.50	10.10	7.90	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Automobile Care Center	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Bank (with Drive-Through)	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Fast Food Restaurant with Drive Thru	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
High Turnover (Sit Down Restaurant)	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Other Asphalt Surfaces	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Other Non-Asphalt Surfaces	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Parking Lot	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Regional Shopping Center	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0774	0.7035	0.5909	4.2200e-003		0.0535	0.0535		0.0535	0.0535		844.1649	844.1649	0.0162	0.0155	849.1814
NaturalGas Unmitigated	0.0774	0.7035	0.5909	4.2200e-003		0.0535	0.0535		0.0535	0.0535		844.1649	844.1649	0.0162	0.0155	849.1814

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Automobile Care Center	356.055	3.8400e-003	0.0349	0.0293	2.1000e-004		2.6500e-003	2.6500e-003		2.6500e-003	2.6500e-003		41.8888	41.8888	8.0000e-004	7.7000e-004	42.1377
Automobile Care Center	445.068	4.8000e-003	0.0436	0.0367	2.6000e-004		3.3200e-003	3.3200e-003		3.3200e-003	3.3200e-003		52.3610	52.3610	1.0000e-003	9.6000e-004	52.6722
Bank (with Drive-Through)	308.878	3.3300e-003	0.0303	0.0254	1.8000e-004		2.3000e-003	2.3000e-003		2.3000e-003	2.3000e-003		36.3385	36.3385	7.0000e-004	6.7000e-004	36.5545
Fast Food Restaurant with Drive Thru	3745.75	0.0404	0.3672	0.3085	2.2000e-003		0.0279	0.0279		0.0279	0.0279		440.6769	440.6769	8.4500e-003	8.0800e-003	443.2956
High Turnover (Sit Down Restaurant)	2247.45	0.0242	0.2203	0.1851	1.3200e-003		0.0168	0.0168		0.0168	0.0168		264.4061	264.4061	5.0700e-003	4.8500e-003	265.9774
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	72.1956	7.8000e-004	7.0800e-003	5.9500e-003	4.0000e-005		5.4000e-004	5.4000e-004		5.4000e-004	5.4000e-004		8.4936	8.4936	1.6000e-004	1.6000e-004	8.5441
Total		**0.0774**	**0.7035**	**0.5909**	**4.2100e-003**		**0.0535**	**0.0535**		**0.0535**	**0.0535**		**844.1649**	**844.1649**	**0.0162**	**0.0155**	**849.1814**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Automobile Care Center	0.445068	4.8000e-003	0.0436	0.0367	2.6000e-004		3.3200e-003	3.3200e-003		3.3200e-003	3.3200e-003		52.3610	52.3610	1.0000e-003	9.6000e-004	52.6722
Automobile Care Center	0.356055	3.8400e-003	0.0349	0.0293	2.1000e-004		2.6500e-003	2.6500e-003		2.6500e-003	2.6500e-003		41.8888	41.8888	8.0000e-004	7.7000e-004	42.1377
Bank (with Drive-Through)	0.308878	3.3300e-003	0.0303	0.0254	1.8000e-004		2.3000e-003	2.3000e-003		2.3000e-003	2.3000e-003		36.3385	36.3385	7.0000e-004	6.7000e-004	36.5545
Fast Food Restaurant with Drive Thru	3.74575	0.0404	0.3672	0.3085	2.2000e-003		0.0279	0.0279		0.0279	0.0279		440.6769	440.6769	8.4500e-003	8.0800e-003	443.2956
High Turnover (Sit Down Restaurant)	2.24745	0.0242	0.2203	0.1851	1.3200e-003		0.0168	0.0168		0.0168	0.0168		264.4061	264.4061	5.0700e-003	4.8500e-003	265.9774
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0.0721956	7.8000e-004	7.0800e-003	5.9500e-003	4.0000e-005		5.4000e-004	5.4000e-004		5.4000e-004	5.4000e-004		8.4936	8.4936	1.6000e-004	1.6000e-004	8.5441
Total		**0.0774**	**0.7035**	**0.5909**	**4.2100e-003**		**0.0535**	**0.0535**		**0.0535**	**0.0535**		**844.1649**	**844.1649**	**0.0162**	**0.0155**	**849.1814**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.8388	2.3000e-004	0.0247	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0526	0.0526	1.4000e-004		0.0561
Unmitigated	0.8388	2.3000e-004	0.0247	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0526	0.0526	1.4000e-004		0.0561

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1023					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.7342					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.3000e-003	2.3000e-004	0.0247	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0526	0.0526	1.4000e-004		0.0561
Total	**0.8388**	**2.3000e-004**	**0.0247**	**0.0000**		**9.0000e-005**	**9.0000e-005**		**9.0000e-005**	**9.0000e-005**		**0.0526**	**0.0526**	**1.4000e-004**		**0.0561**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1023					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.7342					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.3000e-003	2.3000e-004	0.0247	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0526	0.0526	1.4000e-004		0.0561
Total	**0.8388**	**2.3000e-004**	**0.0247**	**0.0000**		**9.0000e-005**	**9.0000e-005**		**9.0000e-005**	**9.0000e-005**		**0.0526**	**0.0526**	**1.4000e-004**		**0.0561**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Solar calculations 31 kW system

Riverside-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Regional Shopping Center	1.00	1000sqft	0.02	1,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	588.29	**CH4 Intensity (lb/MWhr)**	0.024	**N2O Intensity (lb/MWhr)**	0.005

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Adjusted for SCE RPS 2021.

Land Use -

Energy Use - 31 kW solar panel would generate 54,444 kwh/year electricity based on PVWatts

Solar calculations 31 kW system - Riverside-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblEnergyUse	LightingElect	5.61	0.00
tblEnergyUse	NT24E	2.44	52.44
tblEnergyUse	NT24NG	0.30	0.00
tblEnergyUse	T24E	4.58	0.00
tblEnergyUse	T24NG	1.92	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.024
tblProjectCharacteristics	CO2IntensityFactor	702.44	588.29
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.005

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.0619	0.5717	0.4519	6.9000e-004	2.2000e-003	0.0351	0.0373	7.6000e-004	0.0325	0.0332	0.0000	61.9524	61.9524	0.0183	0.0000	62.4097
Maximum	**0.0619**	**0.5717**	**0.4519**	**6.9000e-004**	**2.2000e-003**	**0.0351**	**0.0373**	**7.6000e-004**	**0.0325**	**0.0332**	**0.0000**	**61.9524**	**61.9524**	**0.0183**	**0.0000**	**62.4097**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.0619	0.5717	0.4519	6.9000e-004	2.2000e-003	0.0351	0.0373	7.6000e-004	0.0325	0.0332	0.0000	61.9524	61.9524	0.0183	0.0000	62.4096
Maximum	**0.0619**	**0.5717**	**0.4519**	**6.9000e-004**	**2.2000e-003**	**0.0351**	**0.0373**	**7.6000e-004**	**0.0325**	**0.0332**	**0.0000**	**61.9524**	**61.9524**	**0.0183**	**0.0000**	**62.4096**

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

Solar calculations 31 kW system - Riverside-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	4-15-2019	7-14-2019	0.3435	0.3435
2	7-15-2019	9-30-2019	0.2832	0.2832
		Highest	0.3435	0.3435

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	4.0800e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	13.9944	13.9944	5.7000e-004	1.2000e-004	14.0441
Mobile	0.0112	0.0920	0.1149	4.8000e-004	0.0341	3.5000e-004	0.0344	9.1300e-003	3.3000e-004	9.4500e-003	0.0000	44.4960	44.4960	2.7500e-003	0.0000	44.5649
Waste						0.0000	0.0000		0.0000	0.0000	0.2131	0.0000	0.2131	0.0126	0.0000	0.5281
Water						0.0000	0.0000		0.0000	0.0000	0.0235	0.3920	0.4155	2.4300e-003	6.0000e-005	0.4942
Total	**0.0152**	**0.0920**	**0.1149**	**4.8000e-004**	**0.0341**	**3.5000e-004**	**0.0344**	**9.1300e-003**	**3.3000e-004**	**9.4500e-003**	**0.2366**	**58.8824**	**59.1190**	**0.0184**	**1.8000e-004**	**59.6312**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	4.0800e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	13.9944	13.9944	5.7000e-004	1.2000e-004	14.0441
Mobile	0.0112	0.0920	0.1149	4.8000e-004	0.0341	3.5000e-004	0.0344	9.1300e-003	3.3000e-004	9.4500e-003	0.0000	44.4960	44.4960	2.7500e-003	0.0000	44.5649
Waste						0.0000	0.0000		0.0000	0.0000	0.2131	0.0000	0.2131	0.0126	0.0000	0.5281
Water						0.0000	0.0000		0.0000	0.0000	0.0235	0.3920	0.4155	2.4300e-003	6.0000e-005	0.4942
Total	**0.0152**	**0.0920**	**0.1149**	**4.8000e-004**	**0.0341**	**3.5000e-004**	**0.0344**	**9.1300e-003**	**3.3000e-004**	**9.4500e-003**	**0.2366**	**58.8824**	**59.1190**	**0.0184**	**1.8000e-004**	**59.6312**

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

3.0 Construction Detail

Construction Phase

Solar calculations 31 kW system - Riverside-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	4/15/2019	4/26/2019	5	10	
2	Site Preparation	Site Preparation	4/27/2019	4/29/2019	5	1	
3	Grading	Grading	4/30/2019	5/1/2019	5	2	
4	Building Construction	Building Construction	5/2/2019	9/18/2019	5	100	
5	Paving	Paving	9/19/2019	9/25/2019	5	5	
6	Architectural Coating	Architectural Coating	9/26/2019	10/2/2019	5	5	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,500; Non-Residential Outdoor: 500; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Solar calculations 31 kW system - Riverside-South Coast County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.7700e-003	0.0430	0.0385	6.0000e-005		2.6900e-003	2.6900e-003		2.5600e-003	2.5600e-003	0.0000	5.2601	5.2601	1.0000e-003	0.0000	5.2852
Total	**4.7700e-003**	**0.0430**	**0.0385**	**6.0000e-005**		**2.6900e-003**	**2.6900e-003**		**2.5600e-003**	**2.5600e-003**	**0.0000**	**5.2601**	**5.2601**	**1.0000e-003**	**0.0000**	**5.2852**

3.2 Demolition - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5000e-004	1.8000e-004	1.9000e-003	1.0000e-005	5.5000e-004	0.0000	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4748	0.4748	1.0000e-005	0.0000	0.4751
Total	**2.5000e-004**	**1.8000e-004**	**1.9000e-003**	**1.0000e-005**	**5.5000e-004**	**0.0000**	**5.5000e-004**	**1.5000e-004**	**0.0000**	**1.5000e-004**	**0.0000**	**0.4748**	**0.4748**	**1.0000e-005**	**0.0000**	**0.4751**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.7700e-003	0.0430	0.0385	6.0000e-005		2.6900e-003	2.6900e-003		2.5600e-003	2.5600e-003	0.0000	5.2601	5.2601	1.0000e-003	0.0000	5.2852
Total	**4.7700e-003**	**0.0430**	**0.0385**	**6.0000e-005**		**2.6900e-003**	**2.6900e-003**		**2.5600e-003**	**2.5600e-003**	**0.0000**	**5.2601**	**5.2601**	**1.0000e-003**	**0.0000**	**5.2852**

3.2 Demolition - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5000e-004	1.8000e-004	1.9000e-003	1.0000e-005	5.5000e-004	0.0000	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4748	0.4748	1.0000e-005	0.0000	0.4751
Total	**2.5000e-004**	**1.8000e-004**	**1.9000e-003**	**1.0000e-005**	**5.5000e-004**	**0.0000**	**5.5000e-004**	**1.5000e-004**	**0.0000**	**1.5000e-004**	**0.0000**	**0.4748**	**0.4748**	**1.0000e-005**	**0.0000**	**0.4751**

3.3 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.6000e-004	4.4600e-003	2.0700e-003	0.0000		1.8000e-004	1.8000e-004		1.7000e-004	1.7000e-004	0.0000	0.4378	0.4378	1.4000e-004	0.0000	0.4413
Total	**3.6000e-004**	**4.4600e-003**	**2.0700e-003**	**0.0000**	**2.7000e-004**	**1.8000e-004**	**4.5000e-004**	**3.0000e-005**	**1.7000e-004**	**2.0000e-004**	**0.0000**	**0.4378**	**0.4378**	**1.4000e-004**	**0.0000**	**0.4413**

3.3 Site Preparation - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	9.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0237	0.0237	0.0000	0.0000	0.0238
Total	**1.0000e-005**	**1.0000e-005**	**9.0000e-005**	**0.0000**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0237**	**0.0237**	**0.0000**	**0.0000**	**0.0238**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.6000e-004	4.4600e-003	2.0700e-003	0.0000		1.8000e-004	1.8000e-004		1.7000e-004	1.7000e-004	0.0000	0.4378	0.4378	1.4000e-004	0.0000	0.4413
Total	**3.6000e-004**	**4.4600e-003**	**2.0700e-003**	**0.0000**	**2.7000e-004**	**1.8000e-004**	**4.5000e-004**	**3.0000e-005**	**1.7000e-004**	**2.0000e-004**	**0.0000**	**0.4378**	**0.4378**	**1.4000e-004**	**0.0000**	**0.4413**

3.3 Site Preparation - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	9.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0237	0.0237	0.0000	0.0000	0.0238
Total	**1.0000e-005**	**1.0000e-005**	**9.0000e-005**	**0.0000**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0237**	**0.0237**	**0.0000**	**0.0000**	**0.0238**

3.4 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.5000e-004	0.0000	7.5000e-004	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.5000e-004	8.6000e-003	7.6900e-003	1.0000e-005		5.4000e-004	5.4000e-004		5.1000e-004	5.1000e-004	0.0000	1.0520	1.0520	2.0000e-004	0.0000	1.0570
Total	**9.5000e-004**	**8.6000e-003**	**7.6900e-003**	**1.0000e-005**	**7.5000e-004**	**5.4000e-004**	**1.2900e-003**	**4.1000e-004**	**5.1000e-004**	**9.2000e-004**	**0.0000**	**1.0520**	**1.0520**	**2.0000e-004**	**0.0000**	**1.0570**

3.4 Grading - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-005	4.0000e-005	3.8000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0950	0.0950	0.0000	0.0000	0.0950
Total	**5.0000e-005**	**4.0000e-005**	**3.8000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**1.1000e-004**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**0.0000**	**0.0950**	**0.0950**	**0.0000**	**0.0000**	**0.0950**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.5000e-004	0.0000	7.5000e-004	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.5000e-004	8.6000e-003	7.6900e-003	1.0000e-005		5.4000e-004	5.4000e-004		5.1000e-004	5.1000e-004	0.0000	1.0520	1.0520	2.0000e-004	0.0000	1.0570
Total	**9.5000e-004**	**8.6000e-003**	**7.6900e-003**	**1.0000e-005**	**7.5000e-004**	**5.4000e-004**	**1.2900e-003**	**4.1000e-004**	**5.1000e-004**	**9.2000e-004**	**0.0000**	**1.0520**	**1.0520**	**2.0000e-004**	**0.0000**	**1.0570**

3.4 Grading - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-005	4.0000e-005	3.8000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0950	0.0950	0.0000	0.0000	0.0950
Total	**5.0000e-005**	**4.0000e-005**	**3.8000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**1.1000e-004**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**0.0000**	**0.0950**	**0.0950**	**0.0000**	**0.0000**	**0.0950**

3.5 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0479	0.4910	0.3772	5.7000e-004		0.0303	0.0303		0.0279	0.0279	0.0000	51.1502	51.1502	0.0162	0.0000	51.5548
Total	**0.0479**	**0.4910**	**0.3772**	**5.7000e-004**		**0.0303**	**0.0303**		**0.0279**	**0.0279**	**0.0000**	**51.1502**	**51.1502**	**0.0162**	**0.0000**	**51.5548**

3.5 Building Construction - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0479	0.4910	0.3772	5.7000e-004		0.0303	0.0303		0.0279	0.0279	0.0000	51.1502	51.1502	0.0162	0.0000	51.5548
Total	**0.0479**	**0.4910**	**0.3772**	**5.7000e-004**		**0.0303**	**0.0303**		**0.0279**	**0.0279**	**0.0000**	**51.1502**	**51.1502**	**0.0162**	**0.0000**	**51.5548**

3.5 Building Construction - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.6 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.0700e-003	0.0196	0.0179	3.0000e-005		1.1100e-003	1.1100e-003		1.0300e-003	1.0300e-003	0.0000	2.3931	2.3931	6.8000e-004	0.0000	2.4102
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**2.0700e-003**	**0.0196**	**0.0179**	**3.0000e-005**		**1.1100e-003**	**1.1100e-003**		**1.0300e-003**	**1.0300e-003**	**0.0000**	**2.3931**	**2.3931**	**6.8000e-004**	**0.0000**	**2.4102**

3.6 Paving - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-004	1.6000e-004	1.7100e-003	0.0000	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4273	0.4273	1.0000e-005	0.0000	0.4276
Total	**2.2000e-004**	**1.6000e-004**	**1.7100e-003**	**0.0000**	**4.9000e-004**	**0.0000**	**5.0000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.4273**	**0.4273**	**1.0000e-005**	**0.0000**	**0.4276**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.0700e-003	0.0196	0.0179	3.0000e-005		1.1100e-003	1.1100e-003		1.0300e-003	1.0300e-003	0.0000	2.3931	2.3931	6.8000e-004	0.0000	2.4102
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**2.0700e-003**	**0.0196**	**0.0179**	**3.0000e-005**		**1.1100e-003**	**1.1100e-003**		**1.0300e-003**	**1.0300e-003**	**0.0000**	**2.3931**	**2.3931**	**6.8000e-004**	**0.0000**	**2.4102**

3.6 Paving - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-004	1.6000e-004	1.7100e-003	0.0000	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4273	0.4273	1.0000e-005	0.0000	0.4276
Total	**2.2000e-004**	**1.6000e-004**	**1.7100e-003**	**0.0000**	**4.9000e-004**	**0.0000**	**5.0000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.4273**	**0.4273**	**1.0000e-005**	**0.0000**	**0.4276**

3.7 Architectural Coating - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.6300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.7000e-004	4.5900e-003	4.6000e-003	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004	0.0000	0.6383	0.6383	5.0000e-005	0.0000	0.6397
Total	**5.3000e-003**	**4.5900e-003**	**4.6000e-003**	**1.0000e-005**		**3.2000e-004**	**3.2000e-004**		**3.2000e-004**	**3.2000e-004**	**0.0000**	**0.6383**	**0.6383**	**5.0000e-005**	**0.0000**	**0.6397**

3.7 Architectural Coating - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.6300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.7000e-004	4.5900e-003	4.6000e-003	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004	0.0000	0.6383	0.6383	5.0000e-005	0.0000	0.6397
Total	**5.3000e-003**	**4.5900e-003**	**4.6000e-003**	**1.0000e-005**		**3.2000e-004**	**3.2000e-004**		**3.2000e-004**	**3.2000e-004**	**0.0000**	**0.6383**	**0.6383**	**5.0000e-005**	**0.0000**	**0.6397**

3.7 Architectural Coating - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0112	0.0920	0.1149	4.8000e-004	0.0341	3.5000e-004	0.0344	9.1300e-003	3.3000e-004	9.4500e-003	0.0000	44.4960	44.4960	2.7500e-003	0.0000	44.5649
Unmitigated	0.0112	0.0920	0.1149	4.8000e-004	0.0341	3.5000e-004	0.0344	9.1300e-003	3.3000e-004	9.4500e-003	0.0000	44.4960	44.4960	2.7500e-003	0.0000	44.5649

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Regional Shopping Center	42.70	49.97	25.24	89,205	89,205
Total	42.70	49.97	25.24	89,205	89,205

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Regional Shopping Center	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	13.9944	13.9944	5.7000e-004	1.2000e-004	14.0441
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	13.9944	13.9944	5.7000e-004	1.2000e-004	14.0441
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Regional Shopping Center	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Regional Shopping Center	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Regional Shopping Center	52444	13.9944	5.7000e-004	1.2000e-004	14.0441
Total		**13.9944**	**5.7000e-004**	**1.2000e-004**	**14.0441**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Regional Shopping Center	52444	13.9944	5.7000e-004	1.2000e-004	14.0441
Total		**13.9944**	**5.7000e-004**	**1.2000e-004**	**14.0441**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	4.0800e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Unmitigated	4.0800e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	4.6000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.6100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Total	**4.0700e-003**	**0.0000**	**1.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**2.0000e-005**	**2.0000e-005**	**0.0000**	**0.0000**	**3.0000e-005**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	4.6000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.6100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Total	**4.0700e-003**	**0.0000**	**1.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**2.0000e-005**	**2.0000e-005**	**0.0000**	**0.0000**	**3.0000e-005**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.4155	2.4300e-003	6.0000e-005	0.4942
Unmitigated	0.4155	2.4300e-003	6.0000e-005	0.4942

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Regional Shopping Center	0.0740725 / 0.0453993	0.4155	2.4300e-003	6.0000e-005	0.4942
Total		**0.4155**	**2.4300e-003**	**6.0000e-005**	**0.4942**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Regional Shopping Center	0.0740725 / 0.0453993	0.4155	2.4300e-003	6.0000e-005	0.4942
Total		**0.4155**	**2.4300e-003**	**6.0000e-005**	**0.4942**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.2131	0.0126	0.0000	0.5281
Unmitigated	0.2131	0.0126	0.0000	0.5281

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Regional Shopping Center	1.05	0.2131	0.0126	0.0000	0.5281
Total		**0.2131**	**0.0126**	**0.0000**	**0.5281**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Regional Shopping Center	1.05	0.2131	0.0126	0.0000	0.5281
Total		**0.2131**	**0.0126**	**0.0000**	**0.5281**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Curci Vineyard III Unmit

Riverside-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Bank (with Drive-Through)	3.47	1000sqft	0.08	3,470.00	0
Other Asphalt Surfaces	3.80	Acre	3.80	165,528.00	0
Other Non-Asphalt Surfaces	0.41	Acre	0.41	17,859.60	0
Parking Lot	204.00	Space	1.84	81,600.00	0
Fast Food Restaurant with Drive Thru	5.00	1000sqft	0.11	5,000.00	0
High Turnover (Sit Down Restaurant)	3.00	1000sqft	0.07	3,000.00	0
Automobile Care Center	4.00	1000sqft	0.09	4,000.00	0
Automobile Care Center	5.00	1000sqft	0.11	5,000.00	0
Regional Shopping Center	11.87	1000sqft	0.27	11,870.00	0

1.2 Other Project Characteristics

Urbanization	Rural	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	573.36	**CH4 Intensity (lb/MWhr)**	0.024	**N2O Intensity (lb/MWhr)**	0.005

1.3 User Entered Comments & Non-Default Data

Project Characteristics - SCE RPS adjusted to year 2021 based on 2050 RPS goal of 50%.

Land Use - Land use acreages provided by applicant.

Construction Phase - Construction phase schedule provided by applicant.

Off-road Equipment - Equipment assumptions provided by applicant.

Off-road Equipment - Equipment assumptions provided by applicant.

Off-road Equipment - Equipment assumptions provided by applicant.

Off-road Equipment - Equipment assumptions provided by applicant.

Off-road Equipment - Equipment assumptions provided by applicant.

Trips and VMT - Soil export based on haul truck capacity of 14 cy. Vendor trip delivery assumptions from applicant.

Grading - Soil export and grading acreages from project applicant.

Architectural Coating - Applicant use low VOC paints for interior and exterior.

Vehicle Trips - Project operational mobile emissions calculated in workbook using EMFAC2017 emission rates.

Energy Use -

Construction Off-road Equipment Mitigation - Dust control measures.

Waste Mitigation - AB 341

Off-road Equipment - Data provided by applicant.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	5.00
tblConstructionPhase	NumDays	20.00	64.00
tblConstructionPhase	NumDays	230.00	93.00
tblConstructionPhase	NumDays	20.00	5.00
tblConstructionPhase	NumDays	20.00	8.00

tblGrading	AcresOfGrading	32.00	6.20
tblGrading	AcresOfGrading	15.00	0.00
tblGrading	MaterialExported	0.00	35,000.00
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	PhaseName		Trenching
tblOffRoadEquipment	PhaseName		Trenching
tblOffRoadEquipment	UsageHours	7.00	1.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.024
tblProjectCharacteristics	CO2IntensityFactor	702.44	573.36
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.005
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripLength	20.00	3.60
tblTripsAndVMT	HaulingTripNumber	4,375.00	5,000.00
tblTripsAndVMT	HaulingVehicleClass		HHDT
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	49.00	24.00
tblTripsAndVMT	VendorTripNumber	0.00	620.00

tblTripsAndVMT	VendorVehicleClass		HDT_Mix
tblTripsAndVMT	WorkerTripNumber	13.00	14.00
tblTripsAndVMT	WorkerTripNumber	13.00	14.00
tblTripsAndVMT	WorkerVehicleClass		LD_Mix
tblVehicleTrips	ST_TR	23.72	0.00
tblVehicleTrips	ST_TR	86.32	0.00
tblVehicleTrips	ST_TR	722.03	0.00
tblVehicleTrips	ST_TR	158.37	0.00
tblVehicleTrips	ST_TR	49.97	0.00
tblVehicleTrips	SU_TR	11.88	0.00
tblVehicleTrips	SU_TR	31.90	0.00
tblVehicleTrips	SU_TR	542.72	0.00
tblVehicleTrips	SU_TR	131.84	0.00
tblVehicleTrips	SU_TR	25.24	0.00
tblVehicleTrips	WD_TR	23.72	0.00
tblVehicleTrips	WD_TR	148.15	0.00
tblVehicleTrips	WD_TR	496.12	0.00
tblVehicleTrips	WD_TR	127.15	0.00
tblVehicleTrips	WD_TR	42.70	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.3644	2.5138	2.3304	5.6100e-003	0.1264	0.1017	0.2281	0.0333	0.0974	0.1307	0.0000	502.1766	502.1766	0.0666	0.0000	503.8425
Maximum	**0.3644**	**2.5138**	**2.3304**	**5.6100e-003**	**0.1264**	**0.1017**	**0.2281**	**0.0333**	**0.0974**	**0.1307**	**0.0000**	**502.1766**	**502.1766**	**0.0666**	**0.0000**	**503.8425**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.3644	2.5138	2.3304	5.6100e-003	0.0968	0.1017	0.1985	0.0265	0.0974	0.1239	0.0000	502.1762	502.1762	0.0666	0.0000	503.8422
Maximum	**0.3644**	**2.5138**	**2.3304**	**5.6100e-003**	**0.0968**	**0.1017**	**0.1985**	**0.0265**	**0.0974**	**0.1239**	**0.0000**	**502.1762**	**502.1762**	**0.0666**	**0.0000**	**503.8422**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**23.40**	**0.00**	**12.96**	**20.56**	**0.00**	**5.25**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	2-1-2021	4-30-2021	0.8227	0.8227
2	5-1-2021	7-31-2021	1.1577	1.1577
3	8-1-2021	9-30-2021	0.8663	0.8663
		Highest	1.1577	1.1577

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1530	3.0000e-005	3.0800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.9700e-003	5.9700e-003	2.0000e-005	0.0000	6.3700e-003
Energy	0.0141	0.1284	0.1078	7.7000e-004		9.7600e-003	9.7600e-003		9.7600e-003	9.7600e-003	0.0000	317.8811	317.8811	0.0101	4.1200e-003	319.3609
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	29.1028	0.0000	29.1028	1.7199	0.0000	72.1010
Water						0.0000	0.0000		0.0000	0.0000	1.3616	18.2814	19.6430	0.1406	3.4600e-003	24.1898
Total	**0.1671**	**0.1284**	**0.1109**	**7.7000e-004**	**0.0000**	**9.7700e-003**	**9.7700e-003**	**0.0000**	**9.7700e-003**	**9.7700e-003**	**30.4644**	**336.1685**	**366.6329**	**1.8707**	**7.5800e-003**	**415.6581**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1530	3.0000e-005	3.0800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.9700e-003	5.9700e-003	2.0000e-005	0.0000	6.3700e-003
Energy	0.0141	0.1284	0.1078	7.7000e-004		9.7600e-003	9.7600e-003		9.7600e-003	9.7600e-003	0.0000	317.8811	317.8811	0.0101	4.1200e-003	319.3609
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	14.5514	0.0000	14.5514	0.8600	0.0000	36.0505
Water						0.0000	0.0000		0.0000	0.0000	1.3616	18.2814	19.6430	0.1406	3.4600e-003	24.1898
Total	**0.1671**	**0.1284**	**0.1109**	**7.7000e-004**	**0.0000**	**9.7700e-003**	**9.7700e-003**	**0.0000**	**9.7700e-003**	**9.7700e-003**	**15.9130**	**336.1685**	**352.0815**	**1.0107**	**7.5800e-003**	**379.6076**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**47.77**	**0.00**	**3.97**	**45.97**	**0.00**	**8.67**

3.0 Construction Detail

Construction Phase

Curci Vineyard III Unmit - Riverside-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	2/1/2021	2/5/2021	5	5	
2	Grading	Grading	2/6/2021	5/6/2021	5	64	
3	Trenching	Trenching	5/7/2021	5/20/2021	5	10	
4	Building Construction	Building Construction	5/7/2021	9/14/2021	5	93	
5	Paving	Paving	9/15/2021	9/21/2021	5	5	
6	Architectural Coating	Architectural Coating	9/21/2021	9/30/2021	5	8	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 6.2

Acres of Paving: 6.05

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 48,510; Non-Residential Outdoor: 16,170; Striped Parking Area: 15,899 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Scrapers	3	8.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rollers	1	8.00	80	0.38
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	2	1.00	231	0.29
Building Construction	Forklifts	2	8.00	89	0.20
Building Construction	Generator Sets	6	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Architectural Coating	Air Compressors	2	8.00	78	0.48
Trenching	Excavators	1	8.00	158	0.38
Trenching	Tractors/Loaders/Backhoes	2	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	4	10.00	0.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	5	14.00	2.00	5,000.00	19.80	7.90	3.60	LD_Mix	HDT_Mix	HHDT
Trenching	0	6.00	0.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	13	122.00	24.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	14.00	620.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	24.00	0.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.4400e-003	0.0850	0.0582	1.2000e-004		3.4000e-003	3.4000e-003		3.1300e-003	3.1300e-003	0.0000	10.6699	10.6699	3.4500e-003	0.0000	10.7562
Total	**7.4400e-003**	**0.0850**	**0.0582**	**1.2000e-004**	**0.0000**	**3.4000e-003**	**3.4000e-003**	**0.0000**	**3.1300e-003**	**3.1300e-003**	**0.0000**	**10.6699**	**10.6699**	**3.4500e-003**	**0.0000**	**10.7562**

3.2 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4000e-004	9.0000e-005	1.0200e-003	0.0000	3.7000e-004	0.0000	3.7000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.2976	0.2976	1.0000e-005	0.0000	0.2978
Total	**1.4000e-004**	**9.0000e-005**	**1.0200e-003**	**0.0000**	**3.7000e-004**	**0.0000**	**3.7000e-004**	**1.0000e-004**	**0.0000**	**1.0000e-004**	**0.0000**	**0.2976**	**0.2976**	**1.0000e-005**	**0.0000**	**0.2978**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.4400e-003	0.0850	0.0582	1.2000e-004		3.4000e-003	3.4000e-003		3.1300e-003	3.1300e-003	0.0000	10.6699	10.6699	3.4500e-003	0.0000	10.7562
Total	**7.4400e-003**	**0.0850**	**0.0582**	**1.2000e-004**	**0.0000**	**3.4000e-003**	**3.4000e-003**	**0.0000**	**3.1300e-003**	**3.1300e-003**	**0.0000**	**10.6699**	**10.6699**	**3.4500e-003**	**0.0000**	**10.7562**

3.2 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4000e-004	9.0000e-005	1.0200e-003	0.0000	2.9000e-004	0.0000	2.9000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2976	0.2976	1.0000e-005	0.0000	0.2978
Total	**1.4000e-004**	**9.0000e-005**	**1.0200e-003**	**0.0000**	**2.9000e-004**	**0.0000**	**2.9000e-004**	**8.0000e-005**	**0.0000**	**8.0000e-005**	**0.0000**	**0.2976**	**0.2976**	**1.0000e-005**	**0.0000**	**0.2978**

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.5000e-003	0.0000	5.5000e-003	6.9000e-004	0.0000	6.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0399	0.4414	0.3661	6.6000e-004		0.0203	0.0203		0.0186	0.0186	0.0000	57.9949	57.9949	0.0188	0.0000	58.4639
Total	**0.0399**	**0.4414**	**0.3661**	**6.6000e-004**	**5.5000e-003**	**0.0203**	**0.0258**	**6.9000e-004**	**0.0186**	**0.0193**	**0.0000**	**57.9949**	**57.9949**	**0.0188**	**0.0000**	**58.4639**

3.3 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.3100e-003	0.3124	0.0354	6.2000e-004	7.8000e-003	3.7000e-004	8.1700e-003	2.1500e-003	3.6000e-004	2.5000e-003	0.0000	59.4956	59.4956	8.2700e-003	0.0000	59.7024
Vendor	1.6000e-004	6.2300e-003	1.2000e-003	2.0000e-005	4.6000e-004	1.0000e-005	4.8000e-004	1.3000e-004	1.0000e-005	1.5000e-004	0.0000	1.7233	1.7233	1.2000e-004	0.0000	1.7263
Worker	2.4300e-003	1.7000e-003	0.0184	6.0000e-005	6.6300e-003	4.0000e-005	6.6700e-003	1.7600e-003	4.0000e-005	1.8000e-003	0.0000	5.3333	5.3333	1.2000e-004	0.0000	5.3363
Total	**8.9000e-003**	**0.3203**	**0.0550**	**7.0000e-004**	**0.0149**	**4.2000e-004**	**0.0153**	**4.0400e-003**	**4.1000e-004**	**4.4500e-003**	**0.0000**	**66.5521**	**66.5521**	**8.5100e-003**	**0.0000**	**66.7650**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.1500e-003	0.0000	2.1500e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0399	0.4414	0.3661	6.6000e-004		0.0203	0.0203		0.0186	0.0186	0.0000	57.9949	57.9949	0.0188	0.0000	58.4638
Total	**0.0399**	**0.4414**	**0.3661**	**6.6000e-004**	**2.1500e-003**	**0.0203**	**0.0224**	**2.7000e-004**	**0.0186**	**0.0189**	**0.0000**	**57.9949**	**57.9949**	**0.0188**	**0.0000**	**58.4638**

3.3 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.3100e-003	0.3124	0.0354	6.2000e-004	6.2800e-003	3.7000e-004	6.6600e-003	1.7700e-003	3.6000e-004	2.1300e-003	0.0000	59.4956	59.4956	8.2700e-003	0.0000	59.7024
Vendor	1.6000e-004	6.2300e-003	1.2000e-003	2.0000e-005	3.8000e-004	1.0000e-005	3.9000e-004	1.1000e-004	1.0000e-005	1.2000e-004	0.0000	1.7233	1.7233	1.2000e-004	0.0000	1.7263
Worker	2.4300e-003	1.7000e-003	0.0184	6.0000e-005	5.1400e-003	4.0000e-005	5.1700e-003	1.3900e-003	4.0000e-005	1.4300e-003	0.0000	5.3333	5.3333	1.2000e-004	0.0000	5.3363
Total	**8.9000e-003**	**0.3203**	**0.0550**	**7.0000e-004**	**0.0118**	**4.2000e-004**	**0.0122**	**3.2700e-003**	**4.1000e-004**	**3.6800e-003**	**0.0000**	**66.5521**	**66.5521**	**8.5100e-003**	**0.0000**	**66.7650**

3.4 Trenching - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.0200e-003	0.0297	0.0390	6.0000e-005		1.6400e-003	1.6400e-003		1.5100e-003	1.5100e-003	0.0000	4.9988	4.9988	1.6200e-003	0.0000	5.0393
Total	**3.0200e-003**	**0.0297**	**0.0390**	**6.0000e-005**		**1.6400e-003**	**1.6400e-003**		**1.5100e-003**	**1.5100e-003**	**0.0000**	**4.9988**	**4.9988**	**1.6200e-003**	**0.0000**	**5.0393**

3.4 Trenching - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	1.1000e-004	1.2300e-003	0.0000	4.4000e-004	0.0000	4.5000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3571	0.3571	1.0000e-005	0.0000	0.3573
Total	**1.6000e-004**	**1.1000e-004**	**1.2300e-003**	**0.0000**	**4.4000e-004**	**0.0000**	**4.5000e-004**	**1.2000e-004**	**0.0000**	**1.2000e-004**	**0.0000**	**0.3571**	**0.3571**	**1.0000e-005**	**0.0000**	**0.3573**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.0200e-003	0.0297	0.0390	6.0000e-005		1.6400e-003	1.6400e-003		1.5100e-003	1.5100e-003	0.0000	4.9988	4.9988	1.6200e-003	0.0000	5.0392
Total	**3.0200e-003**	**0.0297**	**0.0390**	**6.0000e-005**		**1.6400e-003**	**1.6400e-003**		**1.5100e-003**	**1.5100e-003**	**0.0000**	**4.9988**	**4.9988**	**1.6200e-003**	**0.0000**	**5.0392**

3.4 Trenching - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	1.1000e-004	1.2300e-003	0.0000	3.4000e-004	0.0000	3.5000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.3571	0.3571	1.0000e-005	0.0000	0.3573
Total	**1.6000e-004**	**1.1000e-004**	**1.2300e-003**	**0.0000**	**3.4000e-004**	**0.0000**	**3.5000e-004**	**9.0000e-005**	**0.0000**	**1.0000e-004**	**0.0000**	**0.3571**	**0.3571**	**1.0000e-005**	**0.0000**	**0.3573**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1427	1.3139	1.4750	2.4800e-003		0.0725	0.0725		0.0704	0.0704	0.0000	214.1540	214.1540	0.0263	0.0000	214.8117
Total	**0.1427**	**1.3139**	**1.4750**	**2.4800e-003**		**0.0725**	**0.0725**		**0.0704**	**0.0704**	**0.0000**	**214.1540**	**214.1540**	**0.0263**	**0.0000**	**214.8117**

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.8100e-003	0.1086	0.0209	3.1000e-004	8.0700e-003	2.2000e-004	8.2900e-003	2.3300e-003	2.1000e-004	2.5400e-003	0.0000	30.0493	30.0493	2.1200e-003	0.0000	30.1022
Worker	0.0307	0.0215	0.2323	7.5000e-004	0.0840	4.9000e-004	0.0845	0.0223	4.5000e-004	0.0228	0.0000	67.5352	67.5352	1.5400e-003	0.0000	67.5738
Total	**0.0336**	**0.1301**	**0.2532**	**1.0600e-003**	**0.0920**	**7.1000e-004**	**0.0928**	**0.0246**	**6.6000e-004**	**0.0253**	**0.0000**	**97.5844**	**97.5844**	**3.6600e-003**	**0.0000**	**97.6760**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1427	1.3139	1.4750	2.4800e-003		0.0725	0.0725		0.0704	0.0704	0.0000	214.1538	214.1538	0.0263	0.0000	214.8115
Total	**0.1427**	**1.3139**	**1.4750**	**2.4800e-003**		**0.0725**	**0.0725**		**0.0704**	**0.0704**	**0.0000**	**214.1538**	**214.1538**	**0.0263**	**0.0000**	**214.8115**

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.8100e-003	0.1086	0.0209	3.1000e-004	6.5800e-003	2.2000e-004	6.8000e-003	1.9600e-003	2.1000e-004	2.1800e-003	0.0000	30.0493	30.0493	2.1200e-003	0.0000	30.1022
Worker	0.0307	0.0215	0.2323	7.5000e-004	0.0650	4.9000e-004	0.0655	0.0177	4.5000e-004	0.0181	0.0000	67.5352	67.5352	1.5400e-003	0.0000	67.5738
Total	**0.0336**	**0.1301**	**0.2532**	**1.0600e-003**	**0.0716**	**7.1000e-004**	**0.0723**	**0.0196**	**6.6000e-004**	**0.0203**	**0.0000**	**97.5844**	**97.5844**	**3.6600e-003**	**0.0000**	**97.6760**

3.6 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.5000e-003	0.0256	0.0280	4.0000e-005		1.4600e-003	1.4600e-003		1.3400e-003	1.3400e-003	0.0000	3.5495	3.5495	1.1500e-003	0.0000	3.5782
Paving	7.3900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**9.8900e-003**	**0.0256**	**0.0280**	**4.0000e-005**		**1.4600e-003**	**1.4600e-003**		**1.3400e-003**	**1.3400e-003**	**0.0000**	**3.5495**	**3.5495**	**1.1500e-003**	**0.0000**	**3.5782**

3.6 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.9000e-003	0.1508	0.0291	4.4000e-004	0.0112	3.1000e-004	0.0115	3.2300e-003	3.0000e-004	3.5300e-003	0.0000	41.7351	41.7351	2.9400e-003	0.0000	41.8086
Worker	1.9000e-004	1.3000e-004	1.4300e-003	0.0000	5.2000e-004	0.0000	5.2000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4167	0.4167	1.0000e-005	0.0000	0.4169
Total	**4.0900e-003**	**0.1509**	**0.0305**	**4.4000e-004**	**0.0117**	**3.1000e-004**	**0.0120**	**3.3700e-003**	**3.0000e-004**	**3.6700e-003**	**0.0000**	**42.1518**	**42.1518**	**2.9500e-003**	**0.0000**	**42.2255**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.5000e-003	0.0256	0.0280	4.0000e-005		1.4600e-003	1.4600e-003		1.3400e-003	1.3400e-003	0.0000	3.5494	3.5494	1.1500e-003	0.0000	3.5781
Paving	7.3900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**9.8900e-003**	**0.0256**	**0.0280**	**4.0000e-005**		**1.4600e-003**	**1.4600e-003**		**1.3400e-003**	**1.3400e-003**	**0.0000**	**3.5494**	**3.5494**	**1.1500e-003**	**0.0000**	**3.5781**

3.6 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.9000e-003	0.1508	0.0291	4.4000e-004	9.1400e-003	3.1000e-004	9.4500e-003	2.7200e-003	3.0000e-004	3.0200e-003	0.0000	41.7351	41.7351	2.9400e-003	0.0000	41.8086
Worker	1.9000e-004	1.3000e-004	1.4300e-003	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.4167	0.4167	1.0000e-005	0.0000	0.4169
Total	**4.0900e-003**	**0.1509**	**0.0305**	**4.4000e-004**	**9.5400e-003**	**3.1000e-004**	**9.8500e-003**	**2.8300e-003**	**3.0000e-004**	**3.1300e-003**	**0.0000**	**42.1518**	**42.1518**	**2.9500e-003**	**0.0000**	**42.2255**

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1118					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.3300e-003	0.0163	0.0194	3.0000e-005		1.0000e-003	1.0000e-003		1.0000e-003	1.0000e-003	0.0000	2.7235	2.7235	1.9000e-004	0.0000	2.7281
Total	**0.1141**	**0.0163**	**0.0194**	**3.0000e-005**		**1.0000e-003**	**1.0000e-003**		**1.0000e-003**	**1.0000e-003**	**0.0000**	**2.7235**	**2.7235**	**1.9000e-004**	**0.0000**	**2.7281**

3.7 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.2000e-004	3.6000e-004	3.9300e-003	1.0000e-005	1.4200e-003	1.0000e-005	1.4300e-003	3.8000e-004	1.0000e-005	3.8000e-004	0.0000	1.1429	1.1429	3.0000e-005	0.0000	1.1435
Total	**5.2000e-004**	**3.6000e-004**	**3.9300e-003**	**1.0000e-005**	**1.4200e-003**	**1.0000e-005**	**1.4300e-003**	**3.8000e-004**	**1.0000e-005**	**3.8000e-004**	**0.0000**	**1.1429**	**1.1429**	**3.0000e-005**	**0.0000**	**1.1435**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1118					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.3300e-003	0.0163	0.0194	3.0000e-005		1.0000e-003	1.0000e-003		1.0000e-003	1.0000e-003	0.0000	2.7235	2.7235	1.9000e-004	0.0000	2.7281
Total	**0.1141**	**0.0163**	**0.0194**	**3.0000e-005**		**1.0000e-003**	**1.0000e-003**		**1.0000e-003**	**1.0000e-003**	**0.0000**	**2.7235**	**2.7235**	**1.9000e-004**	**0.0000**	**2.7281**

3.7 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.2000e-004	3.6000e-004	3.9300e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1100e-003	3.0000e-004	1.0000e-005	3.1000e-004	0.0000	1.1429	1.1429	3.0000e-005	0.0000	1.1435
Total	**5.2000e-004**	**3.6000e-004**	**3.9300e-003**	**1.0000e-005**	**1.1000e-003**	**1.0000e-005**	**1.1100e-003**	**3.0000e-004**	**1.0000e-005**	**3.1000e-004**	**0.0000**	**1.1429**	**1.1429**	**3.0000e-005**	**0.0000**	**1.1435**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Automobile Care Center	0.00	0.00	0.00		
Automobile Care Center	0.00	0.00	0.00		
Bank (with Drive-Through)	0.00	0.00	0.00		
Fast Food Restaurant with Drive Thru	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Automobile Care Center	18.50	10.10	7.90	33.00	48.00	19.00	21	51	28
Automobile Care Center	18.50	10.10	7.90	33.00	48.00	19.00	21	51	28
Bank (with Drive-Through)	18.50	10.10	7.90	6.60	74.40	19.00	27	26	47
Fast Food Restaurant with Drive	18.50	10.10	7.90	2.20	78.80	19.00	29	21	50
High Turnover (Sit Down	18.50	10.10	7.90	8.50	72.50	19.00	37	20	43
Other Asphalt Surfaces	18.50	10.10	7.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	18.50	10.10	7.90	0.00	0.00	0.00	0	0	0
Parking Lot	18.50	10.10	7.90	0.00	0.00	0.00	0	0	0
Regional Shopping Center	18.50	10.10	7.90	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Automobile Care Center	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Bank (with Drive-Through)	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Fast Food Restaurant with Drive Thru	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
High Turnover (Sit Down Restaurant)	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Other Asphalt Surfaces	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Other Non-Asphalt Surfaces	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Parking Lot	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Regional Shopping Center	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	178.1202	178.1202	7.4600e-003	1.5500e-003	178.7694
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	178.1202	178.1202	7.4600e-003	1.5500e-003	178.7694
NaturalGas Mitigated	0.0141	0.1284	0.1078	7.7000e-004		9.7600e-003	9.7600e-003		9.7600e-003	9.7600e-003	0.0000	139.7610	139.7610	2.6800e-003	2.5600e-003	140.5915
NaturalGas Unmitigated	0.0141	0.1284	0.1078	7.7000e-004		9.7600e-003	9.7600e-003		9.7600e-003	9.7600e-003	0.0000	139.7610	139.7610	2.6800e-003	2.5600e-003	140.5915

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Automobile Care Center	129960	7.0000e-004	6.3700e-003	5.3500e-003	4.0000e-005		4.8000e-004	4.8000e-004		4.8000e-004	4.8000e-004	0.0000	6.9352	6.9352	1.3000e-004	1.3000e-004	6.9764
Automobile Care Center	162450	8.8000e-004	7.9600e-003	6.6900e-003	5.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	8.6690	8.6690	1.7000e-004	1.6000e-004	8.7205
Bank (with Drive-Through)	112740	6.1000e-004	5.5300e-003	4.6400e-003	3.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004	0.0000	6.0163	6.0163	1.2000e-004	1.1000e-004	6.0520
Fast Food Restaurant with Drive Thru	1.3672e+006	7.3700e-003	0.0670	0.0563	4.0000e-004		5.0900e-003	5.0900e-003		5.0900e-003	5.0900e-003	0.0000	72.9590	72.9590	1.4000e-003	1.3400e-003	73.3926
High Turnover (Sit Down Restaurant)	820320	4.4200e-003	0.0402	0.0338	2.4000e-004		3.0600e-003	3.0600e-003		3.0600e-003	3.0600e-003	0.0000	43.7754	43.7754	8.4000e-004	8.0000e-004	44.0355
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	26351.4	1.4000e-004	1.2900e-003	1.0900e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	1.4062	1.4062	3.0000e-005	3.0000e-005	1.4146
Total		**0.0141**	**0.1284**	**0.1079**	**7.7000e-004**		**9.7600e-003**	**9.7600e-003**		**9.7600e-003**	**9.7600e-003**	**0.0000**	**139.7610**	**139.7610**	**2.6900e-003**	**2.5700e-003**	**140.5915**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Automobile Care Center	129960	7.0000e-004	6.3700e-003	5.3500e-003	4.0000e-005		4.8000e-004	4.8000e-004		4.8000e-004	4.8000e-004	0.0000	6.9352	6.9352	1.3000e-004	1.3000e-004	6.9764
Automobile Care Center	162450	8.8000e-004	7.9600e-003	6.6900e-003	5.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	8.6690	8.6690	1.7000e-004	1.6000e-004	8.7205
Bank (with Drive-Through)	112740	6.1000e-004	5.5300e-003	4.6400e-003	3.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004	0.0000	6.0163	6.0163	1.2000e-004	1.1000e-004	6.0520
Fast Food Restaurant with Drive Thru	1.3672e+006	7.3700e-003	0.0670	0.0563	4.0000e-004		5.0900e-003	5.0900e-003		5.0900e-003	5.0900e-003	0.0000	72.9590	72.9590	1.4000e-003	1.3400e-003	73.3926
High Turnover (Sit Down Restaurant)	820320	4.4200e-003	0.0402	0.0338	2.4000e-004		3.0600e-003	3.0600e-003		3.0600e-003	3.0600e-003	0.0000	43.7754	43.7754	8.4000e-004	8.0000e-004	44.0355
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	26351.4	1.4000e-004	1.2900e-003	1.0900e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	1.4062	1.4062	3.0000e-005	3.0000e-005	1.4146
Total		**0.0141**	**0.1284**	**0.1079**	**7.7000e-004**		**9.7600e-003**	**9.7600e-003**		**9.7600e-003**	**9.7600e-003**	**0.0000**	**139.7610**	**139.7610**	**2.6900e-003**	**2.5700e-003**	**140.5915**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	40600	10.5589	4.4000e-004	9.0000e-005	10.5974
Automobile Care Center	50750	13.1986	5.5000e-004	1.2000e-004	13.2468
Bank (with Drive-Through)	35220.5	9.1599	3.8000e-004	8.0000e-005	9.1933
Fast Food Restaurant with Drive Thru	237400	61.7410	2.5800e-003	5.4000e-004	61.9661
High Turnover (Sit Down Restaurant)	142440	37.0446	1.5500e-003	3.2000e-004	37.1797
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	28560	7.4277	3.1000e-004	6.0000e-005	7.4547
Regional Shopping Center	149918	38.9895	1.6300e-003	3.4000e-004	39.1316
Total		**178.1202**	**7.4400e-003**	**1.5500e-003**	**178.7694**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	40600	10.5589	4.4000e-004	9.0000e-005	10.5974
Automobile Care Center	50750	13.1986	5.5000e-004	1.2000e-004	13.2468
Bank (with Drive-Through)	35220.5	9.1599	3.8000e-004	8.0000e-005	9.1933
Fast Food Restaurant with Drive Thru	237400	61.7410	2.5800e-003	5.4000e-004	61.9661
High Turnover (Sit Down Restaurant)	142440	37.0446	1.5500e-003	3.2000e-004	37.1797
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	28560	7.4277	3.1000e-004	6.0000e-005	7.4547
Regional Shopping Center	149918	38.9895	1.6300e-003	3.4000e-004	39.1316
Total		**178.1202**	**7.4400e-003**	**1.5500e-003**	**178.7694**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1530	3.0000e-005	3.0800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.9700e-003	5.9700e-003	2.0000e-005	0.0000	6.3700e-003
Unmitigated	0.1530	3.0000e-005	3.0800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.9700e-003	5.9700e-003	2.0000e-005	0.0000	6.3700e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0187					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1340					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.9000e-004	3.0000e-005	3.0800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.9700e-003	5.9700e-003	2.0000e-005	0.0000	6.3700e-003
Total	**0.1530**	**3.0000e-005**	**3.0800e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**5.9700e-003**	**5.9700e-003**	**2.0000e-005**	**0.0000**	**6.3700e-003**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0187					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1340					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.9000e-004	3.0000e-005	3.0800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.9700e-003	5.9700e-003	2.0000e-005	0.0000	6.3700e-003
Total	**0.1530**	**3.0000e-005**	**3.0800e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**5.9700e-003**	**5.9700e-003**	**2.0000e-005**	**0.0000**	**6.3700e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

Curci Vineyard III Unmit - Riverside-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	19.6430	0.1406	3.4600e-003	24.1898
Unmitigated	19.6430	0.1406	3.4600e-003	24.1898

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	0.84673 / 0.518964	4.6355	0.0278	6.9000e-004	5.5353
Bank (with Drive-Through)	0.137492 / 0.084269	0.7527	4.5100e-003	1.1000e-004	0.8988
Fast Food Restaurant with Drive Thru	1.51767 / 0.0968725	5.9008	0.0497	1.2100e-003	7.5049
High Turnover (Sit Down Restaurant)	0.910601 / 0.0581235	3.5405	0.0298	7.3000e-004	4.5029
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0.879241 / 0.53889	4.8135	0.0288	7.2000e-004	5.7478
Total		**19.6430**	**0.1406**	**3.4600e-003**	**24.1898**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	0.84673 / 0.518964	4.6355	0.0278	6.9000e-004	5.5353
Bank (with Drive-Through)	0.137492 / 0.084269	0.7527	4.5100e-003	1.1000e-004	0.8988
Fast Food Restaurant with Drive Thru	1.51767 / 0.0968725	5.9008	0.0497	1.2100e-003	7.5049
High Turnover (Sit Down Restaurant)	0.910601 / 0.0581235	3.5405	0.0298	7.3000e-004	4.5029
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0.879241 / 0.53889	4.8135	0.0288	7.2000e-004	5.7478
Total		**19.6430**	**0.1406**	**3.4600e-003**	**24.1898**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	14.5514	0.8600	0.0000	36.0505
Unmitigated	29.1028	1.7199	0.0000	72.1010

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	34.38	6.9788	0.4124	0.0000	17.2898
Bank (with Drive-Through)	3.24	0.6577	0.0389	0.0000	1.6294
Fast Food Restaurant with Drive Thru	57.59	11.6903	0.6909	0.0000	28.9621
High Turnover (Sit Down Restaurant)	35.7	7.2468	0.4283	0.0000	17.9536
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	12.46	2.5293	0.1495	0.0000	6.2662
Total		**29.1028**	**1.7199**	**0.0000**	**72.1010**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	17.19	3.4894	0.2062	0.0000	8.6449
Bank (with Drive-Through)	1.62	0.3289	0.0194	0.0000	0.8147
Fast Food Restaurant with Drive Thru	28.795	5.8451	0.3454	0.0000	14.4811
High Turnover (Sit Down Restaurant)	17.85	3.6234	0.2141	0.0000	8.9768
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	6.23	1.2646	0.0747	0.0000	3.1331
Total		**14.5514**	**0.8600**	**0.0000**	**36.0505**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Curci Vineyard III Unmit

Riverside-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Bank (with Drive-Through)	3.47	1000sqft	0.08	3,470.00	0
Other Asphalt Surfaces	3.80	Acre	3.80	165,528.00	0
Other Non-Asphalt Surfaces	0.41	Acre	0.41	17,859.60	0
Parking Lot	204.00	Space	1.84	81,600.00	0
Fast Food Restaurant with Drive Thru	5.00	1000sqft	0.11	5,000.00	0
High Turnover (Sit Down Restaurant)	3.00	1000sqft	0.07	3,000.00	0
Automobile Care Center	4.00	1000sqft	0.09	4,000.00	0
Automobile Care Center	5.00	1000sqft	0.11	5,000.00	0
Regional Shopping Center	11.87	1000sqft	0.27	11,870.00	0

1.2 Other Project Characteristics

Urbanization	Rural	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	573.36	**CH4 Intensity (lb/MWhr)**	0.024	**N2O Intensity (lb/MWhr)**	0.005

1.3 User Entered Comments & Non-Default Data

Project Characteristics - SCE RPS adjusted to year 2021 based on 2050 RPS goal of 50%.

Land Use - Land use acreages provided by applicant.

Construction Phase - Construction phase schedule provided by applicant.

Off-road Equipment - Equipment assumptions provided by applicant.

Off-road Equipment - Equipment assumptions provided by applicant.

Off-road Equipment - Equipment assumptions provided by applicant.

Off-road Equipment - Equipment assumptions provided by applicant.

Off-road Equipment - Equipment assumptions provided by applicant.

Trips and VMT - Soil export based on haul truck capacity of 14 cy. Vendor trip delivery assumptions from applicant.

Grading - Soil export and grading acreages from project applicant.

Architectural Coating - Applicant use low VOC paints for interior and exterior.

Vehicle Trips - Project operational mobile emissions calculated in workbook using EMFAC2017 emission rates.

Energy Use -

Construction Off-road Equipment Mitigation - Dust control measures.

Waste Mitigation - AB 341

Off-road Equipment - Data provided by applicant.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	5.00
tblConstructionPhase	NumDays	20.00	64.00
tblConstructionPhase	NumDays	230.00	93.00
tblConstructionPhase	NumDays	20.00	5.00
tblConstructionPhase	NumDays	20.00	8.00

tblGrading	AcresOfGrading	32.00	6.20
tblGrading	AcresOfGrading	15.00	0.00
tblGrading	MaterialExported	0.00	35,000.00
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	PhaseName		Trenching
tblOffRoadEquipment	PhaseName		Trenching
tblOffRoadEquipment	UsageHours	7.00	1.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.024
tblProjectCharacteristics	CO2IntensityFactor	702.44	573.36
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.005
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripLength	20.00	3.60
tblTripsAndVMT	HaulingTripNumber	4,375.00	5,000.00
tblTripsAndVMT	HaulingVehicleClass		HHDT
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	49.00	24.00
tblTripsAndVMT	VendorTripNumber	0.00	620.00

tblTripsAndVMT	VendorVehicleClass		HDT_Mix
tblTripsAndVMT	WorkerTripNumber	13.00	14.00
tblTripsAndVMT	WorkerTripNumber	13.00	14.00
tblTripsAndVMT	WorkerVehicleClass		LD_Mix
tblVehicleTrips	ST_TR	23.72	0.00
tblVehicleTrips	ST_TR	86.32	0.00
tblVehicleTrips	ST_TR	722.03	0.00
tblVehicleTrips	ST_TR	158.37	0.00
tblVehicleTrips	ST_TR	49.97	0.00
tblVehicleTrips	SU_TR	11.88	0.00
tblVehicleTrips	SU_TR	31.90	0.00
tblVehicleTrips	SU_TR	542.72	0.00
tblVehicleTrips	SU_TR	131.84	0.00
tblVehicleTrips	SU_TR	25.24	0.00
tblVehicleTrips	WD_TR	23.72	0.00
tblVehicleTrips	WD_TR	148.15	0.00
tblVehicleTrips	WD_TR	496.12	0.00
tblVehicleTrips	WD_TR	127.15	0.00
tblVehicleTrips	WD_TR	42.70	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	34.2396	74.1842	46.1340	0.2066	5.1151	1.9018	6.0768	1.4595	1.8304	2.3919	0.0000	21,527.2997	21,527.2997	1.8074	0.0000	21,572.4836
Maximum	**34.2396**	**74.1842**	**46.1340**	**0.2066**	**5.1151**	**1.9018**	**6.0768**	**1.4595**	**1.8304**	**2.3919**	**0.0000**	**21,527.2997**	**21,527.2997**	**1.8074**	**0.0000**	**21,572.4836**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	34.2396	74.1842	46.1340	0.2066	4.1439	1.9018	5.1057	1.2211	1.8304	2.2770	0.0000	21,527.2997	21,527.2997	1.8074	0.0000	21,572.4836
Maximum	**34.2396**	**74.1842**	**46.1340**	**0.2066**	**4.1439**	**1.9018**	**5.1057**	**1.2211**	**1.8304**	**2.2770**	**0.0000**	**21,527.2997**	**21,527.2997**	**1.8074**	**0.0000**	**21,572.4836**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**18.99**	**0.00**	**15.98**	**16.33**	**0.00**	**4.80**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.8388	2.3000e-004	0.0247	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0526	0.0526	1.4000e-004		0.0561
Energy	0.0774	0.7035	0.5909	4.2200e-003		0.0535	0.0535		0.0535	0.0535		844.1649	844.1649	0.0162	0.0155	849.1814
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.9162**	**0.7037**	**0.6156**	**4.2200e-003**	**0.0000**	**0.0536**	**0.0536**	**0.0000**	**0.0536**	**0.0536**		**844.2176**	**844.2176**	**0.0163**	**0.0155**	**849.2375**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.8388	2.3000e-004	0.0247	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0526	0.0526	1.4000e-004		0.0561
Energy	0.0774	0.7035	0.5909	4.2200e-003		0.0535	0.0535		0.0535	0.0535		844.1649	844.1649	0.0162	0.0155	849.1814
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.9162**	**0.7037**	**0.6156**	**4.2200e-003**	**0.0000**	**0.0536**	**0.0536**	**0.0000**	**0.0536**	**0.0536**		**844.2176**	**844.2176**	**0.0163**	**0.0155**	**849.2375**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	2/1/2021	2/5/2021	5	5	
2	Grading	Grading	2/6/2021	5/6/2021	5	64	
3	Trenching	Trenching	5/7/2021	5/20/2021	5	10	
4	Building Construction	Building Construction	5/7/2021	9/14/2021	5	93	
5	Paving	Paving	9/15/2021	9/21/2021	5	5	
6	Architectural Coating	Architectural Coating	9/21/2021	9/30/2021	5	8	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 6.2

Acres of Paving: 6.05

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 48,510; Non-Residential Outdoor: 16,170; Striped Parking Area: 15,899 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Scrapers	3	8.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rollers	1	8.00	80	0.38
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	2	1.00	231	0.29
Building Construction	Forklifts	2	8.00	89	0.20
Building Construction	Generator Sets	6	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Architectural Coating	Air Compressors	2	8.00	78	0.48
Trenching	Excavators	1	8.00	158	0.38
Trenching	Tractors/Loaders/Backhoes	2	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	4	10.00	0.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	5	14.00	2.00	5,000.00	19.80	7.90	3.60	LD_Mix	HDT_Mix	HHDT
Trenching	0	6.00	0.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	13	122.00	24.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	14.00	620.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	24.00	0.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	2.9757	34.0042	23.2743	0.0486		1.3609	1.3609		1.2520	1.2520		4,704.6346	4,704.6346	1.5216		4,742.6740
Total	**2.9757**	**34.0042**	**23.2743**	**0.0486**	**0.0000**	**1.3609**	**1.3609**	**0.0000**	**1.2520**	**1.2520**		**4,704.6346**	**4,704.6346**	**1.5216**		**4,742.6740**

3.2 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0590	0.0354	0.4850	1.4300e-003	0.1505	8.7000e-004	0.1514	0.0399	8.0000e-004	0.0407		142.6509	142.6509	3.3500e-003		142.7347
Total	**0.0590**	**0.0354**	**0.4850**	**1.4300e-003**	**0.1505**	**8.7000e-004**	**0.1514**	**0.0399**	**8.0000e-004**	**0.0407**		**142.6509**	**142.6509**	**3.3500e-003**		**142.7347**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	2.9757	34.0042	23.2743	0.0486		1.3609	1.3609		1.2520	1.2520	0.0000	4,704.6346	4,704.6346	1.5216		4,742.6740
Total	**2.9757**	**34.0042**	**23.2743**	**0.0486**	**0.0000**	**1.3609**	**1.3609**	**0.0000**	**1.2520**	**1.2520**	**0.0000**	**4,704.6346**	**4,704.6346**	**1.5216**		**4,742.6740**

3.2 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0590	0.0354	0.4850	1.4300e-003	0.1165	8.7000e-004	0.1174	0.0316	8.0000e-004	0.0324		142.6509	142.6509	3.3500e-003		142.7347
Total	**0.0590**	**0.0354**	**0.4850**	**1.4300e-003**	**0.1165**	**8.7000e-004**	**0.1174**	**0.0316**	**8.0000e-004**	**0.0324**		**142.6509**	**142.6509**	**3.3500e-003**		**142.7347**

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1720	0.0000	0.1720	0.0216	0.0000	0.0216			0.0000			0.0000
Off-Road	1.2462	13.7938	11.4399	0.0206		0.6333	0.6333		0.5827	0.5827		1,997.7651	1,997.7651	0.6461		2,013.9181
Total	**1.2462**	**13.7938**	**11.4399**	**0.0206**	**0.1720**	**0.6333**	**0.8053**	**0.0216**	**0.5827**	**0.6042**		**1,997.7651**	**1,997.7651**	**0.6461**		**2,013.9181**

3.3 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1889	9.8103	0.9423	0.0200	0.2474	0.0113	0.2587	0.0679	0.0108	0.0788		2,115.3547	2,115.3547	0.2703		2,122.1132
Vendor	4.9300e-003	0.1927	0.0347	5.7000e-004	0.0147	4.0000e-004	0.0151	4.2200e-003	3.8000e-004	4.6000e-003		60.2247	60.2247	3.9900e-003		60.3245
Worker	0.0826	0.0496	0.6790	2.0000e-003	0.2107	1.2100e-003	0.2119	0.0559	1.1200e-003	0.0570		199.7112	199.7112	4.7000e-003		199.8286
Total	**0.2764**	**10.0527**	**1.6559**	**0.0225**	**0.4727**	**0.0129**	**0.4857**	**0.1280**	**0.0123**	**0.1404**		**2,375.2906**	**2,375.2906**	**0.2790**		**2,382.2663**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0671	0.0000	0.0671	8.4200e-003	0.0000	8.4200e-003			0.0000			0.0000
Off-Road	1.2462	13.7938	11.4399	0.0206		0.6333	0.6333		0.5827	0.5827	0.0000	1,997.7651	1,997.7651	0.6461		2,013.9181
Total	**1.2462**	**13.7938**	**11.4399**	**0.0206**	**0.0671**	**0.6333**	**0.7004**	**8.4200e-003**	**0.5827**	**0.5911**	**0.0000**	**1,997.7651**	**1,997.7651**	**0.6461**		**2,013.9181**

3.3 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1889	9.8103	0.9423	0.0200	0.1990	0.0113	0.2103	0.0561	0.0108	0.0669		2,115.3547	2,115.3547	0.2703		2,122.1132
Vendor	4.9300e-003	0.1927	0.0347	5.7000e-004	0.0119	4.0000e-004	0.0123	3.5500e-003	3.8000e-004	3.9300e-003		60.2247	60.2247	3.9900e-003		60.3245
Worker	0.0826	0.0496	0.6790	2.0000e-003	0.1631	1.2100e-003	0.1643	0.0442	1.1200e-003	0.0453		199.7112	199.7112	4.7000e-003		199.8286
Total	**0.2764**	**10.0527**	**1.6559**	**0.0225**	**0.3740**	**0.0129**	**0.3870**	**0.1038**	**0.0123**	**0.1161**		**2,375.2906**	**2,375.2906**	**0.2790**		**2,382.2663**

3.4 Trenching - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6034	5.9404	7.7903	0.0114		0.3276	0.3276		0.3014	0.3014		1,102.0534	1,102.0534	0.3564		1,110.9640
Total	**0.6034**	**5.9404**	**7.7903**	**0.0114**		**0.3276**	**0.3276**		**0.3014**	**0.3014**		**1,102.0534**	**1,102.0534**	**0.3564**		**1,110.9640**

3.4 Trenching - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0354	0.0213	0.2910	8.6000e-004	0.0903	5.2000e-004	0.0908	0.0240	4.8000e-004	0.0244		85.5905	85.5905	2.0100e-003		85.6408
Total	**0.0354**	**0.0213**	**0.2910**	**8.6000e-004**	**0.0903**	**5.2000e-004**	**0.0908**	**0.0240**	**4.8000e-004**	**0.0244**		**85.5905**	**85.5905**	**2.0100e-003**		**85.6408**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6034	5.9404	7.7903	0.0114		0.3276	0.3276		0.3014	0.3014	0.0000	1,102.0534	1,102.0534	0.3564		1,110.9640
Total	**0.6034**	**5.9404**	**7.7903**	**0.0114**		**0.3276**	**0.3276**		**0.3014**	**0.3014**	**0.0000**	**1,102.0534**	**1,102.0534**	**0.3564**		**1,110.9640**

3.4 Trenching - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0354	0.0213	0.2910	8.6000e-004	0.0699	5.2000e-004	0.0704	0.0189	4.8000e-004	0.0194		85.5905	85.5905	2.0100e-003		85.6408
Total	**0.0354**	**0.0213**	**0.2910**	**8.6000e-004**	**0.0699**	**5.2000e-004**	**0.0704**	**0.0189**	**4.8000e-004**	**0.0194**		**85.5905**	**85.5905**	**2.0100e-003**		**85.6408**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.0681	28.2550	31.7204	0.0533		1.5584	1.5584		1.5142	1.5142		5,076.6540	5,076.6540	0.6236		5,092.2450
Total	**3.0681**	**28.2550**	**31.7204**	**0.0533**		**1.5584**	**1.5584**		**1.5142**	**1.5142**		**5,076.6540**	**5,076.6540**	**0.6236**		**5,092.2450**

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0592	2.3126	0.4157	6.8500e-003	0.1759	4.7700e-003	0.1806	0.0506	4.5700e-003	0.0552		722.6965	722.6965	0.0479		723.8935
Worker	0.7196	0.4322	5.9166	0.0175	1.8364	0.0106	1.8469	0.4870	9.7200e-003	0.4967		1,740.3407	1,740.3407	0.0409		1,741.3637
Total	**0.7787**	**2.7448**	**6.3323**	**0.0243**	**2.0122**	**0.0153**	**2.0276**	**0.5376**	**0.0143**	**0.5519**		**2,463.0372**	**2,463.0372**	**0.0888**		**2,465.2573**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.0681	28.2550	31.7204	0.0533		1.5584	1.5584		1.5142	1.5142	0.0000	5,076.6540	5,076.6540	0.6236		5,092.2450
Total	**3.0681**	**28.2550**	**31.7204**	**0.0533**		**1.5584**	**1.5584**		**1.5142**	**1.5142**	**0.0000**	**5,076.6540**	**5,076.6540**	**0.6236**		**5,092.2450**

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0592	2.3126	0.4157	6.8500e-003	0.1433	4.7700e-003	0.1481	0.0426	4.5700e-003	0.0472		722.6965	722.6965	0.0479		723.8935
Worker	0.7196	0.4322	5.9166	0.0175	1.4212	0.0106	1.4318	0.3851	9.7200e-003	0.3948		1,740.3407	1,740.3407	0.0409		1,741.3637
Total	**0.7787**	**2.7448**	**6.3323**	**0.0243**	**1.5645**	**0.0153**	**1.5798**	**0.4277**	**0.0143**	**0.4420**		**2,463.0372**	**2,463.0372**	**0.0888**		**2,465.2573**

3.6 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9998	10.2351	11.1861	0.0162		0.5842	0.5842		0.5375	0.5375		1,565.0388	1,565.0388	0.5062		1,577.6929
Paving	2.9554					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**3.9551**	**10.2351**	**11.1861**	**0.0162**		**0.5842**	**0.5842**		**0.5375**	**0.5375**		**1,565.0388**	**1,565.0388**	**0.5062**		**1,577.6929**

3.6 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.5281	59.7429	10.7400	0.1770	4.5431	0.1233	4.6664	1.3078	0.1180	1.4257		18,669.6595	18,669.6595	1.2369		18,700.5829
Worker	0.0826	0.0496	0.6790	2.0000e-003	0.2107	1.2100e-003	0.2119	0.0559	1.1200e-003	0.0570		199.7112	199.7112	4.7000e-003		199.8286
Total	**1.6107**	**59.7925**	**11.4190**	**0.1790**	**4.7538**	**0.1245**	**4.8784**	**1.3637**	**0.1191**	**1.4827**		**18,869.3708**	**18,869.3708**	**1.2416**		**18,900.4115**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9998	10.2351	11.1861	0.0162		0.5842	0.5842		0.5375	0.5375	0.0000	1,565.0388	1,565.0388	0.5062		1,577.6929
Paving	2.9554					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**3.9551**	**10.2351**	**11.1861**	**0.0162**		**0.5842**	**0.5842**		**0.5375**	**0.5375**	**0.0000**	**1,565.0388**	**1,565.0388**	**0.5062**		**1,577.6929**

3.6 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.5281	59.7429	10.7400	0.1770	3.7012	0.1233	3.8246	1.1012	0.1180	1.2191		18,669.6595	18,669.6595	1.2369		18,700.5829
Worker	0.0826	0.0496	0.6790	2.0000e-003	0.1631	1.2100e-003	0.1643	0.0442	1.1200e-003	0.0453		199.7112	199.7112	4.7000e-003		199.8286
Total	**1.6107**	**59.7925**	**11.4190**	**0.1790**	**3.8643**	**0.1245**	**3.9889**	**1.1453**	**0.1191**	**1.2644**		**18,869.3708**	**18,869.3708**	**1.2416**		**18,900.4115**

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	27.9485					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.5837	4.0716	4.8468	7.9200e-003		0.2509	0.2509		0.2509	0.2509		750.5281	750.5281	0.0515		751.8158
Total	**28.5322**	**4.0716**	**4.8468**	**7.9200e-003**		**0.2509**	**0.2509**		**0.2509**	**0.2509**		**750.5281**	**750.5281**	**0.0515**		**751.8158**

3.7 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1416	0.0850	1.1639	3.4400e-003	0.3613	2.0800e-003	0.3633	0.0958	1.9100e-003	0.0977		342.3621	342.3621	8.0500e-003		342.5634
Total	**0.1416**	**0.0850**	**1.1639**	**3.4400e-003**	**0.3613**	**2.0800e-003**	**0.3633**	**0.0958**	**1.9100e-003**	**0.0977**		**342.3621**	**342.3621**	**8.0500e-003**		**342.5634**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	27.9485					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.5837	4.0716	4.8468	7.9200e-003		0.2509	0.2509		0.2509	0.2509	0.0000	750.5281	750.5281	0.0515		751.8158
Total	**28.5322**	**4.0716**	**4.8468**	**7.9200e-003**		**0.2509**	**0.2509**		**0.2509**	**0.2509**	**0.0000**	**750.5281**	**750.5281**	**0.0515**		**751.8158**

3.7 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1416	0.0850	1.1639	3.4400e-003	0.2796	2.0800e-003	0.2817	0.0758	1.9100e-003	0.0777		342.3621	342.3621	8.0500e-003		342.5634
Total	**0.1416**	**0.0850**	**1.1639**	**3.4400e-003**	**0.2796**	**2.0800e-003**	**0.2817**	**0.0758**	**1.9100e-003**	**0.0777**		**342.3621**	**342.3621**	**8.0500e-003**		**342.5634**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Automobile Care Center	0.00	0.00	0.00		
Automobile Care Center	0.00	0.00	0.00		
Bank (with Drive-Through)	0.00	0.00	0.00		
Fast Food Restaurant with Drive Thru	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Automobile Care Center	18.50	10.10	7.90	33.00	48.00	19.00	21	51	28
Automobile Care Center	18.50	10.10	7.90	33.00	48.00	19.00	21	51	28
Bank (with Drive-Through)	18.50	10.10	7.90	6.60	74.40	19.00	27	26	47
Fast Food Restaurant with Drive	18.50	10.10	7.90	2.20	78.80	19.00	29	21	50
High Turnover (Sit Down	18.50	10.10	7.90	8.50	72.50	19.00	37	20	43
Other Asphalt Surfaces	18.50	10.10	7.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	18.50	10.10	7.90	0.00	0.00	0.00	0	0	0
Parking Lot	18.50	10.10	7.90	0.00	0.00	0.00	0	0	0
Regional Shopping Center	18.50	10.10	7.90	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Automobile Care Center	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Bank (with Drive-Through)	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Fast Food Restaurant with Drive Thru	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
High Turnover (Sit Down Restaurant)	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Other Asphalt Surfaces	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Other Non-Asphalt Surfaces	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Parking Lot	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Regional Shopping Center	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0774	0.7035	0.5909	4.2200e-003		0.0535	0.0535		0.0535	0.0535		844.1649	844.1649	0.0162	0.0155	849.1814
NaturalGas Unmitigated	0.0774	0.7035	0.5909	4.2200e-003		0.0535	0.0535		0.0535	0.0535		844.1649	844.1649	0.0162	0.0155	849.1814

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Automobile Care Center	356.055	3.8400e-003	0.0349	0.0293	2.1000e-004		2.6500e-003	2.6500e-003		2.6500e-003	2.6500e-003		41.8888	41.8888	8.0000e-004	7.7000e-004	42.1377
Automobile Care Center	445.068	4.8000e-003	0.0436	0.0367	2.6000e-004		3.3200e-003	3.3200e-003		3.3200e-003	3.3200e-003		52.3610	52.3610	1.0000e-003	9.6000e-004	52.6722
Bank (with Drive-Through)	308.878	3.3300e-003	0.0303	0.0254	1.8000e-004		2.3000e-003	2.3000e-003		2.3000e-003	2.3000e-003		36.3385	36.3385	7.0000e-004	6.7000e-004	36.5545
Fast Food Restaurant with Drive Thru	3745.75	0.0404	0.3672	0.3085	2.2000e-003		0.0279	0.0279		0.0279	0.0279		440.6769	440.6769	8.4500e-003	8.0800e-003	443.2956
High Turnover (Sit Down Restaurant)	2247.45	0.0242	0.2203	0.1851	1.3200e-003		0.0168	0.0168		0.0168	0.0168		264.4061	264.4061	5.0700e-003	4.8500e-003	265.9774
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	72.1956	7.8000e-004	7.0800e-003	5.9500e-003	4.0000e-005		5.4000e-004	5.4000e-004		5.4000e-004	5.4000e-004		8.4936	8.4936	1.6000e-004	1.6000e-004	8.5441
Total		**0.0774**	**0.7035**	**0.5909**	**4.2100e-003**		**0.0535**	**0.0535**		**0.0535**	**0.0535**		**844.1649**	**844.1649**	**0.0162**	**0.0155**	**849.1814**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Automobile Care Center	0.356055	3.8400e-003	0.0349	0.0293	2.1000e-004		2.6500e-003	2.6500e-003		2.6500e-003	2.6500e-003		41.8888	41.8888	8.0000e-004	7.7000e-004	42.1377
Automobile Care Center	0.445068	4.8000e-003	0.0436	0.0367	2.6000e-004		3.3200e-003	3.3200e-003		3.3200e-003	3.3200e-003		52.3610	52.3610	1.0000e-003	9.6000e-004	52.6722
Bank (with Drive-Through)	0.308878	3.3300e-003	0.0303	0.0254	1.8000e-004		2.3000e-003	2.3000e-003		2.3000e-003	2.3000e-003		36.3385	36.3385	7.0000e-004	6.7000e-004	36.5545
Fast Food Restaurant with Drive Thru	3.74575	0.0404	0.3672	0.3085	2.2000e-003		0.0279	0.0279		0.0279	0.0279		440.6769	440.6769	8.4500e-003	8.0800e-003	443.2956
High Turnover (Sit Down Restaurant)	2.24745	0.0242	0.2203	0.1851	1.3200e-003		0.0168	0.0168		0.0168	0.0168		264.4061	264.4061	5.0700e-003	4.8500e-003	265.9774
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0.0721956	7.8000e-004	7.0800e-003	5.9500e-003	4.0000e-005		5.4000e-004	5.4000e-004		5.4000e-004	5.4000e-004		8.4936	8.4936	1.6000e-004	1.6000e-004	8.5441
Total		**0.0774**	**0.7035**	**0.5909**	**4.2100e-003**		**0.0535**	**0.0535**		**0.0535**	**0.0535**		**844.1649**	**844.1649**	**0.0162**	**0.0155**	**849.1814**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.8388	2.3000e-004	0.0247	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0526	0.0526	1.4000e-004		0.0561
Unmitigated	0.8388	2.3000e-004	0.0247	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0526	0.0526	1.4000e-004		0.0561

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1023					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.7342					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.3000e-003	2.3000e-004	0.0247	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0526	0.0526	1.4000e-004		0.0561
Total	**0.8388**	**2.3000e-004**	**0.0247**	**0.0000**		**9.0000e-005**	**9.0000e-005**		**9.0000e-005**	**9.0000e-005**		**0.0526**	**0.0526**	**1.4000e-004**		**0.0561**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1023					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.7342					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.3000e-003	2.3000e-004	0.0247	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0526	0.0526	1.4000e-004		0.0561
Total	**0.8388**	**2.3000e-004**	**0.0247**	**0.0000**		**9.0000e-005**	**9.0000e-005**		**9.0000e-005**	**9.0000e-005**		**0.0526**	**0.0526**	**1.4000e-004**		**0.0561**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Curci Vineyard III Unmit

Riverside-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Bank (with Drive-Through)	3.47	1000sqft	0.08	3,470.00	0
Other Asphalt Surfaces	3.80	Acre	3.80	165,528.00	0
Other Non-Asphalt Surfaces	0.41	Acre	0.41	17,859.60	0
Parking Lot	204.00	Space	1.84	81,600.00	0
Fast Food Restaurant with Drive Thru	5.00	1000sqft	0.11	5,000.00	0
High Turnover (Sit Down Restaurant)	3.00	1000sqft	0.07	3,000.00	0
Automobile Care Center	4.00	1000sqft	0.09	4,000.00	0
Automobile Care Center	5.00	1000sqft	0.11	5,000.00	0
Regional Shopping Center	11.87	1000sqft	0.27	11,870.00	0

1.2 Other Project Characteristics

Urbanization	Rural	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	573.36	**CH4 Intensity (lb/MWhr)**	0.024	**N2O Intensity (lb/MWhr)**	0.005

1.3 User Entered Comments & Non-Default Data

Project Characteristics - SCE RPS adjusted to year 2021 based on 2050 RPS goal of 50%.

Land Use - Land use acreages provided by applicant.

Construction Phase - Construction phase schedule provided by applicant.

Off-road Equipment - Equipment assumptions provided by applicant.

Off-road Equipment - Equipment assumptions provided by applicant.

Off-road Equipment - Equipment assumptions provided by applicant.

Off-road Equipment - Equipment assumptions provided by applicant.

Off-road Equipment - Equipment assumptions provided by applicant.

Trips and VMT - Soil export based on haul truck capacity of 14 cy. Vendor trip delivery assumptions from applicant.

Grading - Soil export and grading acreages from project applicant.

Architectural Coating - Applicant use low VOC paints for interior and exterior.

Vehicle Trips - Project operational mobile emissions calculated in workbook using EMFAC2017 emission rates.

Energy Use -

Construction Off-road Equipment Mitigation - Dust control measures.

Waste Mitigation - AB 341

Off-road Equipment - Data provided by applicant.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	5.00
tblConstructionPhase	NumDays	20.00	64.00
tblConstructionPhase	NumDays	230.00	93.00
tblConstructionPhase	NumDays	20.00	5.00
tblConstructionPhase	NumDays	20.00	8.00

tblGrading	AcresOfGrading	32.00	6.20
tblGrading	AcresOfGrading	15.00	0.00
tblGrading	MaterialExported	0.00	35,000.00
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	PhaseName		Trenching
tblOffRoadEquipment	PhaseName		Trenching
tblOffRoadEquipment	UsageHours	7.00	1.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.024
tblProjectCharacteristics	CO2IntensityFactor	702.44	573.36
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.005
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripLength	20.00	3.60
tblTripsAndVMT	HaulingTripNumber	4,375.00	5,000.00
tblTripsAndVMT	HaulingVehicleClass		HHDT
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	49.00	24.00
tblTripsAndVMT	VendorTripNumber	0.00	620.00

tblTripsAndVMT	VendorVehicleClass		HDT_Mix
tblTripsAndVMT	WorkerTripNumber	13.00	14.00
tblTripsAndVMT	WorkerTripNumber	13.00	14.00
tblTripsAndVMT	WorkerVehicleClass		LD_Mix
tblVehicleTrips	ST_TR	23.72	0.00
tblVehicleTrips	ST_TR	86.32	0.00
tblVehicleTrips	ST_TR	722.03	0.00
tblVehicleTrips	ST_TR	158.37	0.00
tblVehicleTrips	ST_TR	49.97	0.00
tblVehicleTrips	SU_TR	11.88	0.00
tblVehicleTrips	SU_TR	31.90	0.00
tblVehicleTrips	SU_TR	542.72	0.00
tblVehicleTrips	SU_TR	131.84	0.00
tblVehicleTrips	SU_TR	25.24	0.00
tblVehicleTrips	WD_TR	23.72	0.00
tblVehicleTrips	WD_TR	148.15	0.00
tblVehicleTrips	WD_TR	496.12	0.00
tblVehicleTrips	WD_TR	127.15	0.00
tblVehicleTrips	WD_TR	42.70	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	34.3306	73.8204	44.9551	0.2000	5.1151	1.9019	6.0801	1.4595	1.8305	2.3920	0.0000	20,834.0981	20,834.0981	1.9440	0.0000	20,882.6985
Maximum	**34.3306**	**73.8204**	**44.9551**	**0.2000**	**5.1151**	**1.9019**	**6.0801**	**1.4595**	**1.8305**	**2.3920**	**0.0000**	**20,834.0981**	**20,834.0981**	**1.9440**	**0.0000**	**20,882.6985**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	34.3306	73.8204	44.9551	0.2000	4.1439	1.9019	5.1089	1.2211	1.8305	2.2771	0.0000	20,834.0981	20,834.0981	1.9440	0.0000	20,882.6985
Maximum	**34.3306**	**73.8204**	**44.9551**	**0.2000**	**4.1439**	**1.9019**	**5.1089**	**1.2211**	**1.8305**	**2.2771**	**0.0000**	**20,834.0981**	**20,834.0981**	**1.9440**	**0.0000**	**20,882.6985**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**18.99**	**0.00**	**15.97**	**16.33**	**0.00**	**4.80**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.8388	2.3000e-004	0.0247	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0526	0.0526	1.4000e-004		0.0561
Energy	0.0774	0.7035	0.5909	4.2200e-003		0.0535	0.0535		0.0535	0.0535		844.1649	844.1649	0.0162	0.0155	849.1814
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.9162**	**0.7037**	**0.6156**	**4.2200e-003**	**0.0000**	**0.0536**	**0.0536**	**0.0000**	**0.0536**	**0.0536**		**844.2176**	**844.2176**	**0.0163**	**0.0155**	**849.2375**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.8388	2.3000e-004	0.0247	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0526	0.0526	1.4000e-004		0.0561
Energy	0.0774	0.7035	0.5909	4.2200e-003		0.0535	0.0535		0.0535	0.0535		844.1649	844.1649	0.0162	0.0155	849.1814
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.9162**	**0.7037**	**0.6156**	**4.2200e-003**	**0.0000**	**0.0536**	**0.0536**	**0.0000**	**0.0536**	**0.0536**		**844.2176**	**844.2176**	**0.0163**	**0.0155**	**849.2375**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	2/1/2021	2/5/2021	5	5	
2	Grading	Grading	2/6/2021	5/6/2021	5	64	
3	Trenching	Trenching	5/7/2021	5/20/2021	5	10	
4	Building Construction	Building Construction	5/7/2021	9/14/2021	5	93	
5	Paving	Paving	9/15/2021	9/21/2021	5	5	
6	Architectural Coating	Architectural Coating	9/21/2021	9/30/2021	5	8	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 6.2

Acres of Paving: 6.05

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 48,510; Non-Residential Outdoor: 16,170; Striped Parking Area: 15,899 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Scrapers	3	8.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rollers	1	8.00	80	0.38
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	2	1.00	231	0.29
Building Construction	Forklifts	2	8.00	89	0.20
Building Construction	Generator Sets	6	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Architectural Coating	Air Compressors	2	8.00	78	0.48
Trenching	Excavators	1	8.00	158	0.38
Trenching	Tractors/Loaders/Backhoes	2	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	4	10.00	0.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	5	14.00	2.00	5,000.00	19.80	7.90	3.60	LD_Mix	HDT_Mix	HHDT
Trenching	0	6.00	0.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	13	122.00	24.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	14.00	620.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	24.00	0.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	2.9757	34.0042	23.2743	0.0486		1.3609	1.3609		1.2520	1.2520		4,704.6346	4,704.6346	1.5216		4,742.6740
Total	**2.9757**	**34.0042**	**23.2743**	**0.0486**	**0.0000**	**1.3609**	**1.3609**	**0.0000**	**1.2520**	**1.2520**		**4,704.6346**	**4,704.6346**	**1.5216**		**4,742.6740**

3.2 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0592	0.0366	0.3872	1.2800e-003	0.1505	8.7000e-004	0.1514	0.0399	8.0000e-004	0.0407		127.9199	127.9199	2.9000e-003		127.9923
Total	**0.0592**	**0.0366**	**0.3872**	**1.2800e-003**	**0.1505**	**8.7000e-004**	**0.1514**	**0.0399**	**8.0000e-004**	**0.0407**		**127.9199**	**127.9199**	**2.9000e-003**		**127.9923**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	2.9757	34.0042	23.2743	0.0486		1.3609	1.3609		1.2520	1.2520	0.0000	4,704.6346	4,704.6346	1.5216		4,742.6740
Total	**2.9757**	**34.0042**	**23.2743**	**0.0486**	**0.0000**	**1.3609**	**1.3609**	**0.0000**	**1.2520**	**1.2520**	**0.0000**	**4,704.6346**	**4,704.6346**	**1.5216**		**4,742.6740**

3.2 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0592	0.0366	0.3872	1.2800e-003	0.1165	8.7000e-004	0.1174	0.0316	8.0000e-004	0.0324		127.9199	127.9199	2.9000e-003		127.9923
Total	**0.0592**	**0.0366**	**0.3872**	**1.2800e-003**	**0.1165**	**8.7000e-004**	**0.1174**	**0.0316**	**8.0000e-004**	**0.0324**		**127.9199**	**127.9199**	**2.9000e-003**		**127.9923**

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1720	0.0000	0.1720	0.0216	0.0000	0.0216			0.0000			0.0000
Off-Road	1.2462	13.7938	11.4399	0.0206		0.6333	0.6333		0.5827	0.5827		1,997.7651	1,997.7651	0.6461		2,013.9181
Total	**1.2462**	**13.7938**	**11.4399**	**0.0206**	**0.1720**	**0.6333**	**0.8053**	**0.0216**	**0.5827**	**0.6042**		**1,997.7651**	**1,997.7651**	**0.6461**		**2,013.9181**

3.3 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2088	9.5506	1.3200	0.0185	0.2474	0.0121	0.2594	0.0679	0.0116	0.0795		1,958.4561	1,958.4561	0.3045		1,966.0680
Vendor	5.2200e-003	0.1915	0.0407	5.5000e-004	0.0147	4.1000e-004	0.0151	4.2200e-003	3.9000e-004	4.6100e-003		58.1692	58.1692	4.4400e-003		58.2801
Worker	0.0828	0.0513	0.5421	1.8000e-003	0.2107	1.2100e-003	0.2119	0.0559	1.1200e-003	0.0570		179.0878	179.0878	4.0600e-003		179.1892
Total	**0.2969**	**9.7934**	**1.9028**	**0.0208**	**0.4727**	**0.0137**	**0.4864**	**0.1280**	**0.0131**	**0.1411**		**2,195.7130**	**2,195.7130**	**0.3130**		**2,203.5373**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0671	0.0000	0.0671	8.4200e-003	0.0000	8.4200e-003			0.0000			0.0000
Off-Road	1.2462	13.7938	11.4399	0.0206		0.6333	0.6333		0.5827	0.5827	0.0000	1,997.7651	1,997.7651	0.6461		2,013.9181
Total	**1.2462**	**13.7938**	**11.4399**	**0.0206**	**0.0671**	**0.6333**	**0.7004**	**8.4200e-003**	**0.5827**	**0.5911**	**0.0000**	**1,997.7651**	**1,997.7651**	**0.6461**		**2,013.9181**

3.3 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2088	9.5506	1.3200	0.0185	0.1990	0.0121	0.2111	0.0561	0.0116	0.0676		1,958.4561	1,958.4561	0.3045		1,966.0680
Vendor	5.2200e-003	0.1915	0.0407	5.5000e-004	0.0119	4.1000e-004	0.0124	3.5500e-003	3.9000e-004	3.9400e-003		58.1692	58.1692	4.4400e-003		58.2801
Worker	0.0828	0.0513	0.5421	1.8000e-003	0.1631	1.2100e-003	0.1643	0.0442	1.1200e-003	0.0453		179.0878	179.0878	4.0600e-003		179.1892
Total	**0.2969**	**9.7934**	**1.9028**	**0.0208**	**0.3740**	**0.0137**	**0.3877**	**0.1038**	**0.0131**	**0.1169**		**2,195.7130**	**2,195.7130**	**0.3130**		**2,203.5373**

3.4 Trenching - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6034	5.9404	7.7903	0.0114		0.3276	0.3276		0.3014	0.3014		1,102.0534	1,102.0534	0.3564		1,110.9640
Total	**0.6034**	**5.9404**	**7.7903**	**0.0114**		**0.3276**	**0.3276**		**0.3014**	**0.3014**		**1,102.0534**	**1,102.0534**	**0.3564**		**1,110.9640**

3.4 Trenching - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0355	0.0220	0.2323	7.7000e-004	0.0903	5.2000e-004	0.0908	0.0240	4.8000e-004	0.0244		76.7519	76.7519	1.7400e-003		76.7954
Total	**0.0355**	**0.0220**	**0.2323**	**7.7000e-004**	**0.0903**	**5.2000e-004**	**0.0908**	**0.0240**	**4.8000e-004**	**0.0244**		**76.7519**	**76.7519**	**1.7400e-003**		**76.7954**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6034	5.9404	7.7903	0.0114		0.3276	0.3276		0.3014	0.3014	0.0000	1,102.0534	1,102.0534	0.3564		1,110.9640
Total	**0.6034**	**5.9404**	**7.7903**	**0.0114**		**0.3276**	**0.3276**		**0.3014**	**0.3014**	**0.0000**	**1,102.0534**	**1,102.0534**	**0.3564**		**1,110.9640**

3.4 Trenching - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0355	0.0220	0.2323	7.7000e-004	0.0699	5.2000e-004	0.0704	0.0189	4.8000e-004	0.0194		76.7519	76.7519	1.7400e-003		76.7954
Total	**0.0355**	**0.0220**	**0.2323**	**7.7000e-004**	**0.0699**	**5.2000e-004**	**0.0704**	**0.0189**	**4.8000e-004**	**0.0194**		**76.7519**	**76.7519**	**1.7400e-003**		**76.7954**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.0681	28.2550	31.7204	0.0533		1.5584	1.5584		1.5142	1.5142		5,076.6540	5,076.6540	0.6236		5,092.2450
Total	**3.0681**	**28.2550**	**31.7204**	**0.0533**		**1.5584**	**1.5584**		**1.5142**	**1.5142**		**5,076.6540**	**5,076.6540**	**0.6236**		**5,092.2450**

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0627	2.2984	0.4880	6.6200e-003	0.1759	4.9000e-003	0.1808	0.0506	4.6900e-003	0.0553		698.0298	698.0298	0.0532		699.3607
Worker	0.7218	0.4469	4.7240	0.0157	1.8364	0.0106	1.8469	0.4870	9.7200e-003	0.4967		1,560.6222	1,560.6222	0.0354		1,561.5060
Total	**0.7844**	**2.7453**	**5.2120**	**0.0223**	**2.0122**	**0.0155**	**2.0277**	**0.5376**	**0.0144**	**0.5520**		**2,258.6520**	**2,258.6520**	**0.0886**		**2,260.8668**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.0681	28.2550	31.7204	0.0533		1.5584	1.5584		1.5142	1.5142	0.0000	5,076.6540	5,076.6540	0.6236		5,092.2450
Total	**3.0681**	**28.2550**	**31.7204**	**0.0533**		**1.5584**	**1.5584**		**1.5142**	**1.5142**	**0.0000**	**5,076.6540**	**5,076.6540**	**0.6236**		**5,092.2450**

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0627	2.2984	0.4880	6.6200e-003	0.1433	4.9000e-003	0.1482	0.0426	4.6900e-003	0.0473		698.0298	698.0298	0.0532		699.3607
Worker	0.7218	0.4469	4.7240	0.0157	1.4212	0.0106	1.4318	0.3851	9.7200e-003	0.3948		1,560.6222	1,560.6222	0.0354		1,561.5060
Total	**0.7844**	**2.7453**	**5.2120**	**0.0223**	**1.5645**	**0.0155**	**1.5799**	**0.4277**	**0.0144**	**0.4421**		**2,258.6520**	**2,258.6520**	**0.0886**		**2,260.8668**

3.6 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9998	10.2351	11.1861	0.0162		0.5842	0.5842		0.5375	0.5375		1,565.0388	1,565.0388	0.5062		1,577.6929
Paving	2.9554					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**3.9551**	**10.2351**	**11.1861**	**0.0162**		**0.5842**	**0.5842**		**0.5375**	**0.5375**		**1,565.0388**	**1,565.0388**	**0.5062**		**1,577.6929**

3.6 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.6185	59.3745	12.6075	0.1710	4.5431	0.1266	4.6697	1.3078	0.1211	1.4289		18,032.4357	18,032.4357	1.3753		18,066.8191
Worker	0.0828	0.0513	0.5421	1.8000e-003	0.2107	1.2100e-003	0.2119	0.0559	1.1200e-003	0.0570		179.0878	179.0878	4.0600e-003		179.1892
Total	**1.7013**	**59.4258**	**13.1496**	**0.1728**	**4.7538**	**0.1278**	**4.8816**	**1.3637**	**0.1222**	**1.4859**		**18,211.5235**	**18,211.5235**	**1.3794**		**18,246.0084**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9998	10.2351	11.1861	0.0162		0.5842	0.5842		0.5375	0.5375	0.0000	1,565.0388	1,565.0388	0.5062		1,577.6929
Paving	2.9554					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**3.9551**	**10.2351**	**11.1861**	**0.0162**		**0.5842**	**0.5842**		**0.5375**	**0.5375**	**0.0000**	**1,565.0388**	**1,565.0388**	**0.5062**		**1,577.6929**

3.6 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.6185	59.3745	12.6075	0.1710	3.7012	0.1266	3.8278	1.1012	0.1211	1.2222		18,032.4357	18,032.4357	1.3753		18,066.8191
Worker	0.0828	0.0513	0.5421	1.8000e-003	0.1631	1.2100e-003	0.1643	0.0442	1.1200e-003	0.0453		179.0878	179.0878	4.0600e-003		179.1892
Total	**1.7013**	**59.4258**	**13.1496**	**0.1728**	**3.8643**	**0.1278**	**3.9921**	**1.1453**	**0.1222**	**1.2675**		**18,211.5235**	**18,211.5235**	**1.3794**		**18,246.0084**

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	27.9485					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.5837	4.0716	4.8468	7.9200e-003		0.2509	0.2509		0.2509	0.2509		750.5281	750.5281	0.0515		751.8158
Total	**28.5322**	**4.0716**	**4.8468**	**7.9200e-003**		**0.2509**	**0.2509**		**0.2509**	**0.2509**		**750.5281**	**750.5281**	**0.0515**		**751.8158**

3.7 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1420	0.0879	0.9293	3.0800e-003	0.3613	2.0800e-003	0.3633	0.0958	1.9100e-003	0.0977		307.0077	307.0077	6.9500e-003		307.1815
Total	**0.1420**	**0.0879**	**0.9293**	**3.0800e-003**	**0.3613**	**2.0800e-003**	**0.3633**	**0.0958**	**1.9100e-003**	**0.0977**		**307.0077**	**307.0077**	**6.9500e-003**		**307.1815**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	27.9485					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.5837	4.0716	4.8468	7.9200e-003		0.2509	0.2509		0.2509	0.2509	0.0000	750.5281	750.5281	0.0515		751.8158
Total	**28.5322**	**4.0716**	**4.8468**	**7.9200e-003**		**0.2509**	**0.2509**		**0.2509**	**0.2509**	**0.0000**	**750.5281**	**750.5281**	**0.0515**		**751.8158**

3.7 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1420	0.0879	0.9293	3.0800e-003	0.2796	2.0800e-003	0.2817	0.0758	1.9100e-003	0.0777		307.0077	307.0077	6.9500e-003		307.1815
Total	**0.1420**	**0.0879**	**0.9293**	**3.0800e-003**	**0.2796**	**2.0800e-003**	**0.2817**	**0.0758**	**1.9100e-003**	**0.0777**		**307.0077**	**307.0077**	**6.9500e-003**		**307.1815**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Automobile Care Center	0.00	0.00	0.00		
Automobile Care Center	0.00	0.00	0.00		
Bank (with Drive-Through)	0.00	0.00	0.00		
Fast Food Restaurant with Drive Thru	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Automobile Care Center	18.50	10.10	7.90	33.00	48.00	19.00	21	51	28
Automobile Care Center	18.50	10.10	7.90	33.00	48.00	19.00	21	51	28
Bank (with Drive-Through)	18.50	10.10	7.90	6.60	74.40	19.00	27	26	47
Fast Food Restaurant with Drive	18.50	10.10	7.90	2.20	78.80	19.00	29	21	50
High Turnover (Sit Down	18.50	10.10	7.90	8.50	72.50	19.00	37	20	43
Other Asphalt Surfaces	18.50	10.10	7.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	18.50	10.10	7.90	0.00	0.00	0.00	0	0	0
Parking Lot	18.50	10.10	7.90	0.00	0.00	0.00	0	0	0
Regional Shopping Center	18.50	10.10	7.90	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Automobile Care Center	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Bank (with Drive-Through)	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Fast Food Restaurant with Drive Thru	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
High Turnover (Sit Down Restaurant)	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Other Asphalt Surfaces	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Other Non-Asphalt Surfaces	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Parking Lot	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Regional Shopping Center	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0774	0.7035	0.5909	4.2200e-003		0.0535	0.0535		0.0535	0.0535		844.1649	844.1649	0.0162	0.0155	849.1814
NaturalGas Unmitigated	0.0774	0.7035	0.5909	4.2200e-003		0.0535	0.0535		0.0535	0.0535		844.1649	844.1649	0.0162	0.0155	849.1814

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Automobile Care Center	356.055	3.8400e-003	0.0349	0.0293	2.1000e-004		2.6500e-003	2.6500e-003		2.6500e-003	2.6500e-003		41.8888	41.8888	8.0000e-004	7.7000e-004	42.1377
Automobile Care Center	445.068	4.8000e-003	0.0436	0.0367	2.6000e-004		3.3200e-003	3.3200e-003		3.3200e-003	3.3200e-003		52.3610	52.3610	1.0000e-003	9.6000e-004	52.6722
Bank (with Drive-Through)	308.878	3.3300e-003	0.0303	0.0254	1.8000e-004		2.3000e-003	2.3000e-003		2.3000e-003	2.3000e-003		36.3385	36.3385	7.0000e-004	6.7000e-004	36.5545
Fast Food Restaurant with Drive Thru	3745.75	0.0404	0.3672	0.3085	2.2000e-003		0.0279	0.0279		0.0279	0.0279		440.6769	440.6769	8.4500e-003	8.0800e-003	443.2956
High Turnover (Sit Down Restaurant)	2247.45	0.0242	0.2203	0.1851	1.3200e-003		0.0168	0.0168		0.0168	0.0168		264.4061	264.4061	5.0700e-003	4.8500e-003	265.9774
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	72.1956	7.8000e-004	7.0800e-003	5.9500e-003	4.0000e-005		5.4000e-004	5.4000e-004		5.4000e-004	5.4000e-004		8.4936	8.4936	1.6000e-004	1.6000e-004	8.5441
Total		**0.0774**	**0.7035**	**0.5909**	**4.2100e-003**		**0.0535**	**0.0535**		**0.0535**	**0.0535**		**844.1649**	**844.1649**	**0.0162**	**0.0155**	**849.1814**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Automobile Care Center	0.445068	4.8000e-003	0.0436	0.0367	2.6000e-004		3.3200e-003	3.3200e-003		3.3200e-003	3.3200e-003		52.3610	52.3610	1.0000e-003	9.6000e-004	52.6722
Automobile Care Center	0.356055	3.8400e-003	0.0349	0.0293	2.1000e-004		2.6500e-003	2.6500e-003		2.6500e-003	2.6500e-003		41.8888	41.8888	8.0000e-004	7.7000e-004	42.1377
Bank (with Drive-Through)	0.308878	3.3300e-003	0.0303	0.0254	1.8000e-004		2.3000e-003	2.3000e-003		2.3000e-003	2.3000e-003		36.3385	36.3385	7.0000e-004	6.7000e-004	36.5545
Fast Food Restaurant with Drive Thru	3.74575	0.0404	0.3672	0.3085	2.2000e-003		0.0279	0.0279		0.0279	0.0279		440.6769	440.6769	8.4500e-003	8.0800e-003	443.2956
High Turnover (Sit Down Restaurant)	2.24745	0.0242	0.2203	0.1851	1.3200e-003		0.0168	0.0168		0.0168	0.0168		264.4061	264.4061	5.0700e-003	4.8500e-003	265.9774
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0.0721956	7.8000e-004	7.0800e-003	5.9500e-003	4.0000e-005		5.4000e-004	5.4000e-004		5.4000e-004	5.4000e-004		8.4936	8.4936	1.6000e-004	1.6000e-004	8.5441
Total		**0.0774**	**0.7035**	**0.5909**	**4.2100e-003**		**0.0535**	**0.0535**		**0.0535**	**0.0535**		**844.1649**	**844.1649**	**0.0162**	**0.0155**	**849.1814**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.8388	2.3000e-004	0.0247	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0526	0.0526	1.4000e-004		0.0561
Unmitigated	0.8388	2.3000e-004	0.0247	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0526	0.0526	1.4000e-004		0.0561

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1023					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.7342					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.3000e-003	2.3000e-004	0.0247	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0526	0.0526	1.4000e-004		0.0561
Total	**0.8388**	**2.3000e-004**	**0.0247**	**0.0000**		**9.0000e-005**	**9.0000e-005**		**9.0000e-005**	**9.0000e-005**		**0.0526**	**0.0526**	**1.4000e-004**		**0.0561**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1023					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.7342					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.3000e-003	2.3000e-004	0.0247	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0526	0.0526	1.4000e-004		0.0561
Total	**0.8388**	**2.3000e-004**	**0.0247**	**0.0000**		**9.0000e-005**	**9.0000e-005**		**9.0000e-005**	**9.0000e-005**		**0.0526**	**0.0526**	**1.4000e-004**		**0.0561**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Appendix B

Health Risk Assessment

Health Risk Assessment Report for the Vineyard III Retail Development Project City of Murrieta, California

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Acronyms and Abbreviations

Acronym/Abbreviation	Definition
AB	Assembly Bill
AERMOD	American Meteorological Society/Environmental Protection Agency Regulatory Model
ASF	age-sensitivity factor
CalEEMod	California Emissions Estimator Model
CAPCOA	California Air Pollution Control Officers Association
CARB	California Air Resources Board
CEQA	California Environmental Quality Act
DBR	daily breathing rate
DPM	diesel particulate matter
ELSI	Lake Elsinore
EIR	Environmental Impact Report
EPA	U.S. Environmental Protection Agency
FAH	fraction of time at home
g/s	grams per second
HARP2	Hotspots Analysis and Reporting Program Version 2
hp	horsepower
HRA	health risk assessment
MM	mitigation measure
mph	miles per hour
NED	National Elevation Dataset
OEHHA	Office of Environmental Health Hazard Assessment
PM_{10}	particulate matter with a diameter less the 10 microns
REL	reference exposure level
SCAQMD	South Coast Air Quality Management District
SJVAPCD	San Joaquin Valley Air Pollution Control District
TAC	toxic air contaminant
X/Q	ground-level unity emission concentration
$\mu g/m^3$	microgram per cubic meter

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Summary

The purpose of this health risk assessment (HRA) is to determine the potential cancer risk and non-cancer health impacts to existing sensitive residential receptors in proximity to the proposed Costco/Vineyard Phase II Retail Development Project (project) due to toxic air contaminant (TAC) emissions from construction and operation of the project.

Air dispersion modeling was conducted using the American Meteorological Society/ Environmental Protection Agency Regulatory Model (AERMOD) Version 19191 and the Hotspots Analysis and Reporting Program Version 2 (HARP2). The South Coast Air Quality Management District's (SCAQMD's) *Modeling Guidance for AERMOD* (SCAQMD 2018a), SCAQMD's *Risk Assessment Procedures for Rules 1401, 1401.1, and 212 Version 8.1* (SCAQMD 2017), and the Office of Environmental Health Hazard Assessment's (OEHHA's) *Air Toxics Hot Spots Program Risk Assessment Guidelines Guidance Manual for Preparation of Health Risk Assessments* (2015 Risk Assessment Guidelines Manual) (OEHHA 2015) were used to prepare this HRA. For the residential health risk, the HRA assumes exposure from construction-generated TAC emissions would start in the third trimester of pregnancy and occur 8 hours per day, 5 days per week, for 8 months.

This HRA finds that unmitigated project construction would result in potential chronic health risk at the maximally exposed residential receptor of 0.005, which is below the SCAQMD threshold of 1.0. Chronic health risk impacts would be less than significant. The unmitigated potential cancer risk at the maximally exposed residential receptor would be 2.90 in 1 million, which is below the SCAQMD threshold of 10 in 1 million. No short-term, acute relative exposure values are established and regulated for diesel particulate matter (DPM), and are therefore not addressed in this assessment. Furthermore, with implementation of MM-AQ-1, mitigated project construction would result in potential cancer risk and chronic health risk at the maximally exposed residential receptor would be 0.17 in 1 million and 0.0003, respectively, which are below the applicable SCAQMD thresholds.

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1 Introduction

1.1 Purpose

In support of the air quality assessment, the health risk assessment (HRA) modeling analysis was prepared to estimate health risk impacts to existing sensitive receptors from exposure to toxic air contaminant (TAC) emissions from construction of the project. The analysis in this HRA uses air dispersion modeling and Hotspots Analysis and Reporting Program Version 2 (HARP2) to evaluate potential health risks associated with the project. Results of the modeling analysis are compared with the most recent California Environmental Quality Act (CEQA) significance thresholds established by the South Coast Air Quality Management District (SCAQMD). Per CEQA Guidelines, Appendix G (14 CCR 15000 et seq.), the HRA directly addresses question (d): Would the project expose sensitive receptors to substantial pollutant concentrations?

1.2 Project Description

The project would involve development of a new retail development, which would include a 3,470-square-foot bank with a drive-through; 10,000-square-foot building that would house three tenants: 4,500-square-foot retail store, 3,000-square-foot fast food restaurant with drive-through, and 2,500-square-foot fast food restaurant with drive-through; 2,500-square-foot fast food restaurant with drive-through; 5,000-square-foot automobile tire store; 4,000-square-foot automobile care center; 7,370-square-foot retail store; and associated parking on approximately 6.65 acres.

1.3 Sensitive Receptors

Some land uses are considered more sensitive to changes in air quality than others, depending on the population groups and the activities involved. People most likely to be affected by air pollution include children, the elderly, athletes, and people with cardiovascular and chronic respiratory diseases. Facilities and structures where these air pollution-sensitive people live or spend considerable amounts of time are known as sensitive receptors. Land uses where air-pollution-sensitive individuals are most likely to spend time include schools and schoolyards, parks and playgrounds, daycare centers, nursing homes, hospitals, and residential communities (sensitive sites or sensitive land uses) (CARB 2005). SCAQMD identifies sensitive receptors as residences, schools, playgrounds, childcare centers, long term healthcare facilities, rehabilitation centers, convalescent centers, and retirement homes (SCAQMD 1993). The closest off-site sensitive receptors to the project site include Vista Murrieta High School and residences located approximately 175 feet to the south.

1.4 Toxic Air Contaminants

A substance is considered toxic if it has the potential to cause adverse health effects in humans, including increasing the risk of cancer upon exposure, or acute (short term) and/or chronic (long term) non-cancer health effects. A toxic substance released into the air is considered a TAC. Examples include certain aromatic and chlorinated hydrocarbons, diesel particulate matter (DPM), certain metals, and asbestos. TACs are generated by a number of sources, including stationary sources such as dry cleaners, gas stations, combustion sources, and laboratories; mobile sources such as automobiles; and area sources such as landfills. Adverse health effects

associated with exposure to TACs may include carcinogenic (i.e., cancer-causing) and noncarcinogenic effects. Noncarcinogenic effects typically affect one or more target organ system and may be experienced either by acute or chronic exposure to a given TAC.

California's air toxics control program began in 1983 with the passage of the Toxic Air Contaminant Identification and Control Act, Assembly Bill (AB) 1807, better known as the Tanner Bill. The Tanner Bill established a regulatory process for the scientific and public review of individual toxic compounds. When a compound becomes listed as a TAC under the Tanner process, CARB normally establishes minimum statewide emission-control measures to be adopted by air quality management districts and air pollution control districts. By 1992, 18 of the 189 federal hazardous air pollutants had been listed by the CARB as state TACs. In April 1993, CARB added 171 substances to the state program to make the state TAC list equivalent to the federal list of hazardous air pollutants. In 1998, CARB designated diesel engine exhaust particulate matter (DPM) as a TAC (CARB 1998). The exhaust from diesel engines is a complex mixture of gases, vapors, and particles, many of which are known human carcinogens. DPM has established cancer risk factors and relative exposure values for long term chronic health hazard impacts. No short term, acute relative exposure values are established for DPM, and it is regulated; therefore, DPM is not addressed in this construction-generated assessment.

The second major component of California's air toxics program, supplementing the Tanner process, was provided by the passage of AB 2588, the Air Toxics "Hot Spots" Information and Assessment Act of 1987. AB 2588 currently regulates over 600 compounds, including all of the Tanner-designated TACs.

Additionally, Proposition 65, passed by California voters in 1986, required that a list of carcinogenic and reproductive toxicants found in the environment be compiled, the discharge of these toxicants into drinking water be prohibited, and warnings of public exposure by air, land, or water be posted if a significant adverse public health risk is posed. The emission of any of listed substances by a facility would require a public warning unless health risks could be demonstrated to be less than significant. For carcinogens, Proposition 65 defines the "no significant risk level" as the level of exposure that would result in an increased cancer risk of greater than 10 in 1 million over a 70-year lifetime. The "no significant risk level" is 1/1000 of the No Observable Effect Level for reproductive toxicants.

In 2000, CARB approved a comprehensive Diesel Risk Reduction Plan to reduce diesel emissions from both new and existing diesel-fueled vehicles and engines. The regulation is anticipated to result in an 80% decrease in statewide diesel health risk in 2020 compared with the diesel risk in 2000. Additional regulations apply to new trucks and diesel fuel, including the On-Road Heavy Duty Diesel Vehicle (In-Use) Regulation, On-Road Heavy Duty (New) Vehicle Program, In-Use Off-Road Diesel Vehicle Regulation, and New Off-Road Compression-Ignition (Diesel) Engines and Equipment program. These regulations and programs have timetables by which manufacturers must comply and existing operators must upgrade their diesel powered equipment. Several Airborne Toxic Control Measures reduce diesel emissions, including In-Use Off-Road Diesel-Fueled Fleets (13 CCR 2449 et seq.) and In-Use On-Road Diesel-Fueled Vehicles (13 CCR 2025).

1.5 Cancer Risk

Cancer risk is defined as the increase in lifetime probability (chance) of an individual developing cancer due to exposure to a carcinogenic compound, typically expressed as the increased probability in 1 million. The cancer risk from inhalation of a TAC is estimated by calculating the inhalation (and if applicable, ingestion and dermal) dose in units of milligrams per kilogram body weight per day based on an ambient concentration in units of

micrograms per cubic meter (µg/m^3), breathing rate, and exposure period and multiplying the dose by the inhalation cancer potency factor, expressed as (milligrams/kilogram body weight per day)$^{-1}$. Cancer risks are typically calculated for all carcinogenic TACs and summed to calculate the overall increase in cancer risk to an individual. The calculation procedure assumes that cancer risk is proportional to concentrations at any level of exposure and that risks due to different carcinogens are additive. This approach is generally considered a conservative assumption at low doses and is consistent with the current Office of Environmental Health Hazard Assessment (OEHHA) regulatory approach. Exposure to carcinogenic TACs does not imply that the exposed individual would contract cancer; rather, the cancer risk is a probability of developing cancer if other factors (e.g., heredity, exposure to environmental or workplace risks that compromise the immune system, overall health) would result in an increased susceptibility to developing cancer.

1.6 Chronic Non-Cancer Health Impacts

The non-cancer health impact of an inhaled TAC is measured by the hazard quotient, which is the ratio of the ambient concentration of a TAC in units of µg/m^3 divided by the reference exposure level (REL), also in units of µg/m^3. The REL is the concentration at or below which no adverse health effects are anticipated. The REL is typically based on health effects on a particular target organ system, such as the respiratory system, liver, or central nervous system. Hazard quotients of individual TACs are then summed for each target organ system to obtain a hazard index.

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2 Guidance and Thresholds

2.1 Office of Environmental Health Hazard Assessment's Guidance

OEHHA's most recent guidance is the 2015 Risk Assessment Guidelines Manual (OEHHA 2015), which was adopted in 2015 to replace the 2003 HRA Guidance Manual. The Children's Environmental Health Protection Act of 1999 (Senate Bill 25), which requires explicit consideration of infants and children in assessing risks from air toxics, requires revisions of the methods for both non-cancer and cancer risk assessment and of the exposure assumptions in the 2003 HRA Guidance Manual. In response to Senate Bill 25, OEHHA released three technical support documents addressing RELs (OEHHA 2008), cancer potency (OEHHA 2009), and exposure assessment and stochastic analysis (OEHHA 2012) and adopted the 2015 Risk Assessment Guidelines Manual (OEHHA 2015). The technical support document for RELs and continuing work to re-evaluate TACs to ensure adequate protection for infants and children has led to revisions of RELs for approximately 10 chemicals and chemical families. The basic methodology for evaluating chronic health effects using the RELs otherwise remained the same as in the previous guidance manual. Moreover, RELs are designed to protect the most sensitive individuals in the population, including infants and children, by selecting appropriate toxicological data and including margins of safety. Accordingly, the evaluation methods are assumed to protect children and other sensitive subpopulations (groups of more highly susceptible individuals) from adverse health effects in the event of exposure (OEHHA 2008).

The cancer risk methodology described in the exposure assessment and stochastic analysis technical support document and the 2015 Risk Assessment Guidelines Manual accounts for the higher sensitivity of infants and children by applying age-specific daily breathing rates (DBRs) and age-sensitivity factors (ASFs). According to the technical support document, "accounting for effects of early-in life exposure requires accounting for both the increased potency of early in life exposure to carcinogens and the greater exposure on a per [kilogram] body weight that occurs early in life due to behavioral and physiological differences between infants and children, and adults" (OEHHA 2012). In the absence of chemical-specific data, OEHHA recommends a default ASF of 10 for the third trimester to age 2 years and an ASF of 3 for ages 2 through 15 years to account for potential increased sensitivity to carcinogens during childhood (OEHHA 2015). The ASF for adults is 1. In addition to the ASFs, children have higher DBRs per unit of body weight than adults. The OEHHA guidance manual considers the age-specific breathing rates in the cancer risk calculations.

In addition, OEHHA and CARB evaluated information from activity patterns databases to estimate the fraction of time at home (FAH) during the day. From the third trimester to age <2 years, 85% of time is spent at home. From age 2 through <16 years, 72% of time is spent at home. From age 16 years and greater, 73% of time is spent at home. However, for facilities with any school within the 1 in a million or greater isopleth, the OEHHA recommends using an FAH of 100% for children under 16 years old (OEHHA 2015). Cancer risk parameters, such as ASFs, DBRs, exposure period, FAH, and cancer potency factors were based on the values and data recommended by OEHHA as implemented in HARP2.

2.2 South Coast Air Quality Management District Guidance

SCAQMD's Modeling Guidance for American Meteorological Society/ Environmental Protection Agency Regulatory Model (AERMOD) (SCAQMD 2018a) and Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis (SCAQMD 2003) provides guidance to perform dispersion modeling for use in HRAs within the South Coast Air Basin. SCAQMD's current thresholds of significance for TAC emissions are presented in Table 1.

Table 1. SCAQMD CEQA TAC Emissions Thresholds

	Noncarcinogens
Carcinogens	*Chronic*
Maximally exposed individual risk equals or exceeds 10 in 1 million	Hazard Index equals or exceeds 1.0 for the maximally exposed individual

Source: SCAQMD 2015.
Notes: CEQA = California Environmental Quality Act; SCAQMD = South Coast Air Quality Management District; TAC = toxic air contaminant

3 Modeling Methodology

3.1 Emission Calculation

Emissions from the construction phase of the project were estimated using the California Emissions Estimator Model (CalEEMod) Version 2016.3.2. Construction scenario assumptions, including phasing, equipment mix, and vehicle trips, were based on information provided by the applicant and CalEEMod default values. All assumptions pertaining to construction emissions, including phasing, equipment, and vehicle trips, are based on Section 4.2 (Air Quality) of the Environmental Impact Report (EIR). Complete detailed construction assumptions are included in Appendix A and are summarized below.

For the purposes of modeling, it was assumed that construction of the project would commence in February 2021 and would last approximately 8 months, ending in September 2021. The analysis contained herein is based on the following assumptions (duration of phases is approximate), as shown in Table 2.

Table 2. Construction Phasing Assumptions

Project Construction Phase	Start Date	End Date	Duration (days)
Site Preparation	2/1/2021	2/5/2021	5
Grading	2/6/2021	5/6/2021	64
Building Construction	5/7/2021	9/14/2021	93
Trenching	5/7/2021	5/20/2021	10
Paving	9/15/2021	9/21/2021	5
Architectural Coating	9/21/2021	9/30/2021	9

Source: See Appendix A for complete results.

For the HRA, we are concerned with DPM emitted from exhaust from on-site construction equipment and diesel vehicles. The exhaust from diesel engines is a complex mixture of gases, vapors, and particles, many of which are known human carcinogens. DPM has established cancer risk factors and relative exposure values for long-term chronic health hazard impacts. No short-term, acute relative exposure level has been established for DPM; therefore, acute impacts of DPM are not addressed in this assessment. Notably, to include only on-site emissions from diesel haul and vendor trucks, they were conservatively assumed to operate for 0.19-miles on site (1,000 feet).

The rock-crushing equipment would be powered by a 350 horsepower (hp), 156 hp, 325 hp, and 85 hp diesel-fueled generator. The diesel-fueled generators were assumed to operate up to 8 hours per day for a period of 5 days. For the HRA, we are concerned with DPM emitted from exhaust from the diesel-engine generators, construction equipment, and heavy-duty vehicles.

Unmitigated Construction Emissions

Table 3 presents the estimated unmitigated annual construction exhaust PM_{10} emissions, a surrogate for DPM, generated during construction of the project.

Table 3. Unmitigated Project Annual On-Site Construction Emissions – Exhaust Only (Year 2021)

Source	PM_{10}	
	Pounds per Year	*Pounds per Hour*
Off-Road Equipment	197.32	0.14
On-Site Truck Trips	2.90	<0.01

Source: See Appendix A for complete results.
Notes: PM_{10} = coarse particulate matter; <0.01 = values reported are less than 0.01
Annual pounds per year emissions is the total from all years of construction, and the hourly emissions is based on the construction schedule of 8 hours per day and 8 months of total construction.

The rock-crushing equipment would be powered by a 350 hp, 156 hp, 325 hp, and 85 hp diesel-fueled generators. Table 4 presents the estimated unmitigated annual exhaust PM_{10} emissions, a surrogate for DPM, generated by the diesel-fueled generators.

Table 4. Unmitigated Project Annual Diesel-Fueled Generators Emissions – Exhaust Only

Diesel-Engine Generator	PM_{10}	
	Pounds per year	*Pounds per hour*
350 horsepower	1.42	0.04
156 horsepower	1.20	0.03
325 horsepower	1.31	0.03
85 horsepower	1.33	0.03

Source: See Appendix A for complete results.
Notes: PM_{10} = coarse particulate matter

Mitigated Construction Emissions

Although the cancer risk and chronic hazard index are below SCAQMD significance thresholds from project construction, the HRA results from the mitigated scenario are also included since the project would be required to implement MM-AQ-1 to mitigate criteria air pollutant emissions from project construction.

MM-AQ-1: To reduce the potential for criteria air pollutants, specifically oxides of nitrogen (NO_x), as a result of construction of the project, prior to the start of construction activities, the applicant, or its designee shall:

> Ensure that all 75 horsepower or greater diesel-powered equipment are powered with California Air Resources Board–certified Tier 4 Final engines, except where the project applicant establishes to the satisfaction of the City of Murrieta (City) that Tier 4 Final equipment is not available.
>
> An exemption from these requirements may be granted by the City in the event that the City is provided with sufficient evidence that equipment with the required tier is not reasonably available and corresponding reductions in criteria air pollutant emissions are achieved from other construction equipment. Before an exemption may be considered by the City, the project applicant shall be required to: (1) demonstrate that two construction fleet owners/operators in Riverside County were contacted and that those owners/operators confirmed Tier 4 Final equipment could not be located within the Riverside County; and (2) demonstrate that the proposed replacement equipment has been evaluated using the California Emissions

Estimator Model (CalEEMod) or other industry standard emission estimation method and documentation provided to the City to confirm the project-generated emissions do not exceed applicable South Coast Air Quality Management District mass daily thresholds of significance and localized significance thresholds.

Table 5 presents the estimated mitigated annual construction exhaust PM_{10} emissions generated during construction of the project.

Table 5. Mitigated Project Annual On-Site Construction Emissions – Exhaust Only (Year 2021)

Source	PM_{10}	
	Pounds per Year	*Pounds per Hour*
Off-Road Equipment	9.78	0.01
On-Site Truck Trips	0.42	<0.01

Source: See Appendix A for complete results.
Notes: PM_{10} = coarse particulate matter; <0.01 = values reported are less than 0.01
Annual pounds per year emissions is the total from all years of construction, and the hourly emissions is based on the construction schedule of 8 hours per day and 8 months of total construction.

The estimated DPM emissions from the diesel-fueled generators used to power the rock-crushing equipment would remain unchanged. Thus, in the mitigated scenario, the diesel-fueled generator DPM emissions remain the same as the unmitigated scenario and are presented in Table 4.

3.2 Dispersion Model

Air dispersion models calculate the atmospheric transport and fate of pollutants from the emission source. The models calculate the concentration of selected pollutants at specific downwind ground-level points, such as residential or school receptors. The transformation (fate) of an airborne pollutant, its movement with the prevailing winds (transport), its crosswind and vertical movement due to atmospheric turbulence (dispersion), and its removal due to dry and wet deposition are influenced by the pollutant's physical and chemical properties and by meteorological and environmental conditions. Factors such as distance from the source to the receptor, meteorological conditions, intervening land use and terrain, pollutant release characteristics, and background pollutant concentrations affect the predicted air concentration of an air pollutant. Air dispersion models have the capability to take all of these factors into consideration when calculating downwind ground-level pollutant concentrations.

A dispersion modeling analysis of DPM emitted from project construction diesel vehicles and off-road equipment was conducted on the areas surrounding the project site for the HRA. Furthermore, the TAC emissions from the gasoline dispensing facility, on-site and off-site truck travel and idling were conducted on the project site for the HRA. The dispersion modeling was performed using AERMOD Version 19191, which is the model United States Environmental Protection Agency (EPA) approved and SCAQMD recommends for atmospheric dispersion of emissions. AERMOD is a steady-state Gaussian plume model that incorporates air dispersion based on planetary boundary layer turbulence structure and scaling concepts, including treatment of surface and elevated sources, building downwash, and simple and complex terrain. Based on the construction schedule of 8 hours per day, 5 days per week, the variable emission factor of 4.2 was applied (7:00 am to 4:00 pm with an hour break for lunch). Principal parameters of AERMOD for the project modeling included the following:

- **Dispersion Model:** The air dispersion model used was AERMOD Version 19191, with the Lakes Environmental Software implementation/user interface, AERMOD View Version 9.8.3. A unit emission rate of 1.0 gram per

second (g/s) was applied to each source (i.e., generators). Furthermore, a unit emission rate was normalized over the line of adjacent volume sources (i.e., construction equipment and on-site truck travel) for the AERMOD run to obtain the "X/Q" values. X/Q is a dispersion factor that is the average effluent concentration normalized by source strength, and is used as a way to simplify the representation of emissions from many sources. The maximum concentrations were determined for the 1-hour and Period averaging periods.

- **Meteorological Data:** The latest 5-year meteorological data for the Lake Elsinore (ELSI) station (Station ID 3171) from SCAQMD were downloaded (SCAQMD 2018b), and then input to AERMOD. For cancer and chronic non-cancer risk assessments, the average cancer and chronic non-cancer risk of all years modeled was used. A wind rose is provided for this station on Figure 1.
- **Urban and Rural Options:** Typically, urban areas have more surface roughness and structures and low-albedo surfaces that absorb more sunlight, and thus, more heat, relative to rural areas. According to SCAQMD guidelines, the urban dispersion option was selected and Riverside County population for year 2010 (2,189,641 persons) was input into AERMOD (SCAQMD 2018a).
- **Terrain Characteristics:** Digital elevation model files were imported into AERMOD so that complex terrain features were evaluated as appropriate. Per SCAQMD guidance, the National Elevation Dataset (NED) dataset with resolution of 1/3 arc-second was used (SCAQMD 2018a).
- **Sensitive Receptors:** This HRA evaluates the risk to existing residential receptor located in proximity to the project. A uniform 2-kilometer by 2-kilometer Cartesian grid with 100-meter spacing was centered over the project site and converted into discrete receptors to represent proximate sensitive receptors. The construction scenario also used discrete receptors positioned at specific locations to evaluate the maximally exposed sensitive receptor. The closest off-site sensitive receptors to the project site include Vista Murrieta High School and residences located approximately 175 feet to the south.
- **Source Release Construction Scenario:** Air dispersion modeling of DPM emissions was conducted assuming the equipment would operate in accordance with the modeling scenario estimated in CalEEMod (Appendix A). The construction equipment DPM emissions were modeled as a line of adjacent volume sources across the project site to represent project construction with a release height of 5 meters, a plume height of 2.33 meters, and a plume width of 11.63 meters (EPA 2004; SCAQMD 2008). On-site truck travel was modeled as lines of adjacent volume sources, and, based on EPA methodology, the modeled sources would result in a release height of 3.4 meters, a plume height of 3.16 meters, and a plume width of 3.12 meters (EPA 2015). The 350 hp and 325 hp diesel-engine generators were modeled as a point source with a stack height of 8.2 feet, inside stack diameter of 5.3 inches, stack temperature of 931°F, and exhaust flow rate of 1,829 standard cubic feet per minute. The 156 hp diesel-engine generator was modeled as a point source with a stack height of 7.4 feet, inside stack diameter of 4.1 inches, stack temperature of 899°F, and exhaust flow rate of 779 standard cubic feet per minute. The 85 hp diesel-engine generator was modeled as a point source with a stack height of 7.1 feet, inside stack diameter of 4.6 inches, stack temperature of 992°F, and exhaust flow rate of 468 standard cubic feet per minute (SBCAPCD 2019).

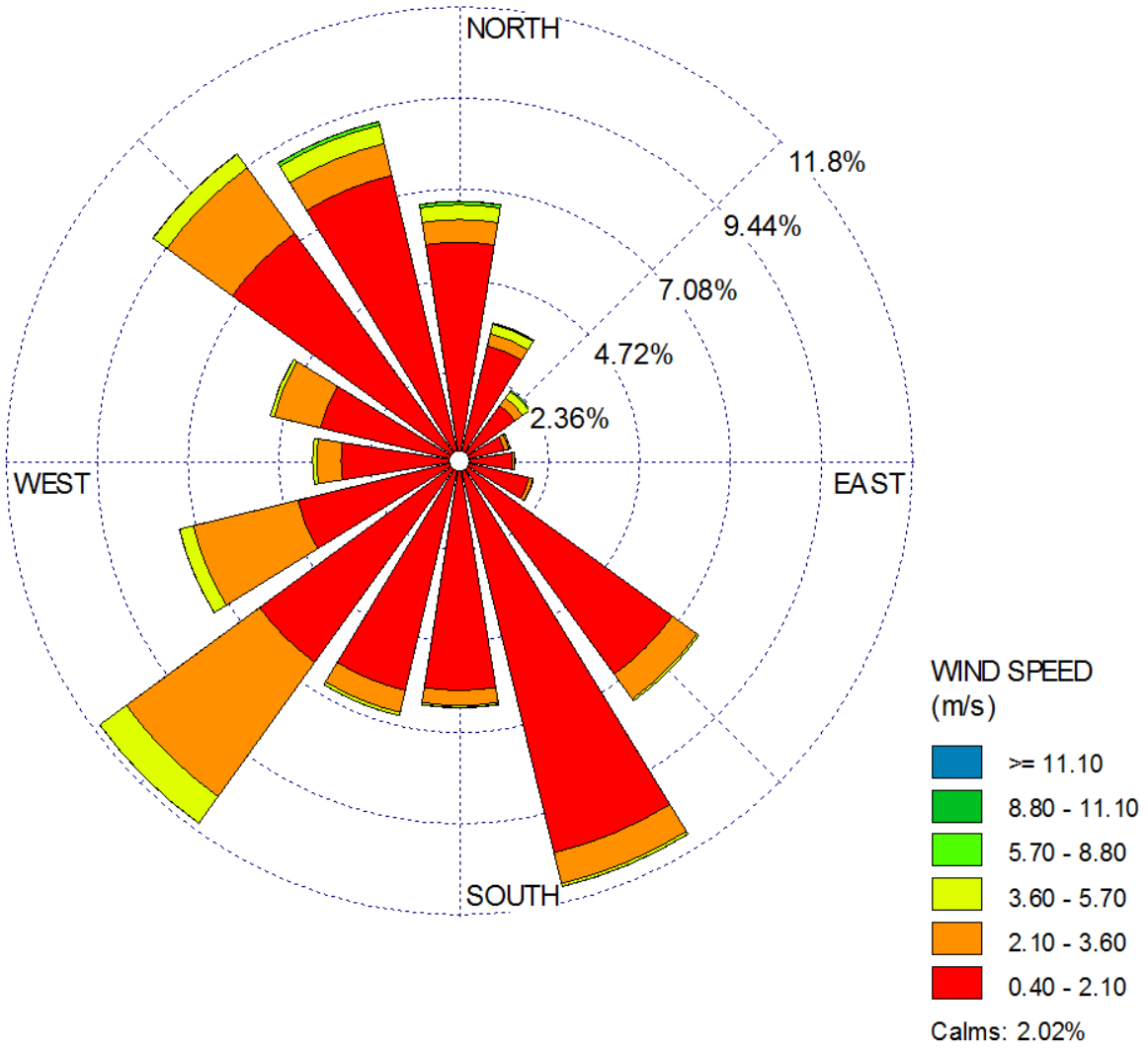
3.3 Health Risk Assessment Methodology

In March 2015, the OEHHA approved the 2015 Risk Assessment Guidelines Manual (OEHHA 2015). SCAQMD requires that all HRAs prepared for CEQA documents follow SCAQMD policies in conjunction with the 2015 Risk Assessment Guidelines Manual. Cancer and non-cancer health risk calculations were performed for the project using ground-level unity emission concentration (X/Q) input from AERMOD. This modeling established the emissions dispersion field to the existing sensitive receptors from atmospheric influence of the project

construction DPM emissions. Plot files generated in AERMOD were then imported into HARP2, with ground level concentrations determined by multiplication of emission rates and X/Q values for the total volume sources of emissions. HARP2 then assessed resulting cancer and non-cancer risk at the existing receptors from exposure to TAC emissions using the OEHHA Derived calculation method.

For the purposes of this assessment, given the less-than-lifetime exposure period, and the higher breathing rates and sensitivity of children to construction-generated TACs, the cancer risk calculation assumes that the exposure would affect children early in their lives. For the residential health risk, the HRA assumes exposure would start in the 3rd trimester of pregnancy and occur 8 hours per day, 5 days per week, for 8 months. The exposure duration for a resident from third trimester to 8 months is more conservative than a student age 14 at a high school due to the increased ASF and breathing rates; therefore, the calculated residential maximum individual cancer risk and the residential chronic hazard index are the worst-case scenario for a resident and student.

Figure 1. Wind Rose of Meteorological Data – ELSI Station



Source: SCAQMD 2018b.

4 Health Risk Results

The cancer risk calculations were performed by multiplying the AERMOD-predicted DPM concentrations in $\mu g/m^3$ per unit g/s due to DPM emissions from trucks and construction equipment by the appropriate risk values. The potential exposure pathway for DPM includes inhalation only. The potential exposure through other pathways (e.g., ingestion) requires substance and site-specific data, and the specific parameters for DPM are not known for these pathways (CARB 1998).

Table 6 shows the maximum cancer and chronic health risks at the maximally exposed residential receptor from project construction. AERMOD and HARP2 outputs are in Appendix B.

Table 6. Summary of Maximum Construction Cancer and Chronic Health Risks - Unmitigated

Impact Analysis	Impact Parameter	Units	Project Impact	CEQA Threshold	Level of Significance
Maximally Exposed Individual Resident					
Construction HRA	Cancer Risk	Per Million	2.90	10	Less than Significant
	Chronic Hazard Index	Index Value	0.005	1.0	Less than Significant

Source: See Appendix B for complete results.
Notes: CEQA = California Environmental Quality Act; HRA = Health Risk Assessment

As shown in Table 6, the HRA results from the unmitigated scenario show cancer risks less than the 10 in 1 million threshold and chronic hazard index less than the 1.0 threshold; thus, the project would result in a less than significant impact at the maximally exposed individual residential and school receptors.

Although the cancer risk and chronic hazard index are below SCAQMD significance thresholds from project construction, the HRA results from the mitigated scenario are also included. Table 7 shows the maximum cancer and chronic health risks at the maximally exposed residential receptor from project construction. AERMOD and HARP2 outputs are in Appendix B.

Table 7. Summary of Maximum Construction Cancer and Chronic Health Risks - Mitigated

Impact Analysis	Impact Parameter	Units	Project Impact	CEQA Threshold	Level of Significance
Maximally Exposed Individual Resident					
Construction HRA	Cancer Risk	Per Million	0.17	10	Less than Significant
	Chronic Hazard Index	Index Value	0.0003	1.0	Less than Significant

Source: See Appendix B for complete results.
Notes: CEQA = California Environmental Quality Act; HRA = Health Risk Assessment

As shown in Table 7, the HRA results from the mitigated scenario show cancer risks less than the 10 in 1 million threshold and chronic hazard index less than the 1.0 threshold.

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5 Conclusions

The results determined in this analysis reflect reasonable estimates of source emissions and exhaust characteristics, available meteorological data near the project site, and the use of currently approved air quality models. Given the limits of available tools for such an analysis, the actual impacts may vary from the estimates in this assessment. However, the combined use of the AERMOD dispersion model and the health impact calculations required by OEHHA and SCAQMD tend to overpredict impacts, such that they produce conservative (i.e., health-protective) results. For this reason, the estimated cancer risks and non-cancer hazard indices reported in this analysis are likely upper-bound estimates for potential exposure to project-related emissions. In addition, the estimated cancer risks and non-cancer hazard indices represent the maximum exposed individual resident and school child and do not represent the risk over a broad area. The actual risks of cancer or non-cancer effects from the project are likely to be lower than presented herein.

Based on this analysis, project construction would result in potential cancer health risk impacts and chronic health risk at the maximally exposed residential receptor less than the applicable SCAQMD threshold without the need for mitigation. Thus, the project would result in a less-than-significant impact.

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Appendix A

Emission Calculations

Curci Vineyard III Mit Tier 4i HRA

Riverside-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Bank (with Drive-Through)	3.47	1000sqft	0.08	3,470.00	0
Other Asphalt Surfaces	3.80	Acre	3.80	165,528.00	0
Other Non-Asphalt Surfaces	0.41	Acre	0.41	17,859.60	0
Parking Lot	204.00	Space	1.84	81,600.00	0
Fast Food Restaurant with Drive Thru	5.00	1000sqft	0.11	5,000.00	0
High Turnover (Sit Down Restaurant)	3.00	1000sqft	0.07	3,000.00	0
Automobile Care Center	4.00	1000sqft	0.09	4,000.00	0
Automobile Care Center	5.00	1000sqft	0.11	5,000.00	0
Regional Shopping Center	11.87	1000sqft	0.27	11,870.00	0

1.2 Other Project Characteristics

Urbanization	Rural	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	573.36	**CH4 Intensity (lb/MWhr)**	0.024	**N2O Intensity (lb/MWhr)**	0.005

1.3 User Entered Comments & Non-Default Data

Curci Vineyard III Mit Tier 4i HRA - Riverside-South Coast County, Annual

Project Characteristics - SCE RPS adjusted to year 2021 based on 2050 RPS goal of 50%.

Land Use - Land use acreages provided by applicant.

Construction Phase - Construction phase schedule provided by applicant.

Off-road Equipment - Equipment assumptions provided by applicant.

Off-road Equipment - Equipment assumptions provided by applicant.

Off-road Equipment - Equipment assumptions provided by applicant.

Off-road Equipment - Equipment assumptions provided by applicant.

Off-road Equipment - Equipment assumptions provided by applicant.

Trips and VMT - Soil export based on haul truck capacity of 14 cy. Vendor trip delivery assumptions from applicant. HRA onsite truck travel 1,000 ft.

Grading - Soil export and grading acreages from project applicant.

Architectural Coating - Applicant use low VOC paints for interior and exterior.

Vehicle Trips - Based on project specific traffic report, weekend trip rates scaled based on CalEEMod defaults.

Energy Use -

Construction Off-road Equipment Mitigation - Dust control measures. MM-AQ-1 Tier 4 interim Equiment for equipment > 75 hp

Waste Mitigation - AB 341

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	10.00	5.00
tblConstructionPhase	NumDays	20.00	64.00
tblConstructionPhase	NumDays	230.00	93.00
tblConstructionPhase	NumDays	20.00	5.00
tblConstructionPhase	NumDays	20.00	8.00
tblGrading	AcresOfGrading	32.00	6.20
tblGrading	AcresOfGrading	15.00	0.00
tblGrading	MaterialExported	0.00	35,000.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	1.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.024
tblProjectCharacteristics	CO2IntensityFactor	702.44	573.36
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.005
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripNumber	4,375.00	5,000.00
tblTripsAndVMT	VendorTripLength	7.90	0.19
tblTripsAndVMT	VendorTripLength	7.90	0.19
tblTripsAndVMT	VendorTripLength	7.90	0.19
tblTripsAndVMT	VendorTripLength	7.90	0.19
tblTripsAndVMT	VendorTripLength	7.90	0.19
tblTripsAndVMT	VendorTripLength	7.90	0.19
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	49.00	24.00
tblTripsAndVMT	VendorTripNumber	0.00	620.00
tblTripsAndVMT	WorkerTripLength	19.80	0.00
tblTripsAndVMT	WorkerTripLength	19.80	0.00
tblTripsAndVMT	WorkerTripLength	19.80	0.00

tblTripsAndVMT	WorkerTripLength	19.80	0.00
tblTripsAndVMT	WorkerTripLength	19.80	0.00
tblTripsAndVMT	WorkerTripLength	19.80	0.00
tblTripsAndVMT	WorkerTripNumber	13.00	14.00
tblTripsAndVMT	WorkerTripNumber	13.00	14.00
tblVehicleTrips	ST_TR	23.72	65.12
tblVehicleTrips	ST_TR	86.32	431.60
tblVehicleTrips	ST_TR	722.03	3,610.15
tblVehicleTrips	ST_TR	158.37	475.11
tblVehicleTrips	ST_TR	49.97	1,964.86
tblVehicleTrips	SU_TR	11.88	32.61
tblVehicleTrips	SU_TR	31.90	159.50
tblVehicleTrips	SU_TR	542.72	2,713.60
tblVehicleTrips	SU_TR	131.84	395.52
tblVehicleTrips	SU_TR	25.24	992.46
tblVehicleTrips	WD_TR	23.72	65.12
tblVehicleTrips	WD_TR	148.15	740.75
tblVehicleTrips	WD_TR	496.12	2,480.60
tblVehicleTrips	WD_TR	127.15	381.45
tblVehicleTrips	WD_TR	42.70	1,679.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.3296	2.3261	2.0340	3.9200e-003	6.5700e-003	0.0988	0.1054	1.0100e-003	0.0947	0.0957	0.0000	345.1697	345.1697	0.0621	0.0000	346.7223
Maximum	**0.3296**	**2.3261**	**2.0340**	**3.9200e-003**	**6.5700e-003**	**0.0988**	**0.1054**	**1.0100e-003**	**0.0947**	**0.0957**	**0.0000**	**345.1697**	**345.1697**	**0.0621**	**0.0000**	**346.7223**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.1977	1.6822	2.2573	3.9200e-003	3.0500e-003	5.0900e-003	8.1400e-003	5.5000e-004	5.0800e-003	5.6300e-003	0.0000	345.1694	345.1694	0.0621	0.0000	346.7219
Maximum	**0.1977**	**1.6822**	**2.2573**	**3.9200e-003**	**3.0500e-003**	**5.0900e-003**	**8.1400e-003**	**5.5000e-004**	**5.0800e-003**	**5.6300e-003**	**0.0000**	**345.1694**	**345.1694**	**0.0621**	**0.0000**	**346.7219**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**40.02**	**27.68**	**-10.98**	**0.00**	**53.58**	**94.85**	**92.28**	**45.54**	**94.64**	**94.12**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	2-1-2021	4-30-2021	0.7698	0.5253
2	5-1-2021	7-31-2021	1.0695	0.7345
3	8-1-2021	9-30-2021	0.7912	0.6079
		Highest	1.0695	0.7345

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1530	3.0000e-005	3.0800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.9700e-003	5.9700e-003	2.0000e-005	0.0000	6.3700e-003
Energy	0.0141	0.1284	0.1078	7.7000e-004		9.7600e-003	9.7600e-003		9.7600e-003	9.7600e-003	0.0000	317.8811	317.8811	0.0101	4.1200e-003	319.3609
Mobile	9.5940	78.4189	94.1872	0.3882	27.0364	0.2819	27.3183	7.2440	0.2645	7.5085	0.0000	36,022.1846	36,022.1846	2.3437	0.0000	36,080.7775
Waste						0.0000	0.0000		0.0000	0.0000	29.1028	0.0000	29.1028	1.7199	0.0000	72.1010
Water						0.0000	0.0000		0.0000	0.0000	1.3616	18.2814	19.6430	0.1406	3.4600e-003	24.1898
Total	**9.7611**	**78.5473**	**94.2982**	**0.3890**	**27.0364**	**0.2917**	**27.3281**	**7.2440**	**0.2742**	**7.5182**	**30.4644**	**36,358.3530**	**36,388.8174**	**4.2144**	**7.5800e-003**	**36,496.4355**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1530	3.0000e-005	3.0800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.9700e-003	5.9700e-003	2.0000e-005	0.0000	6.3700e-003
Energy	0.0141	0.1284	0.1078	7.7000e-004		9.7600e-003	9.7600e-003		9.7600e-003	9.7600e-003	0.0000	317.8811	317.8811	0.0101	4.1200e-003	319.3609
Mobile	9.5940	78.4189	94.1872	0.3882	27.0364	0.2819	27.3183	7.2440	0.2645	7.5085	0.0000	36,022.1846	36,022.1846	2.3437	0.0000	36,080.7775
Waste						0.0000	0.0000		0.0000	0.0000	14.5514	0.0000	14.5514	0.8600	0.0000	36.0505
Water						0.0000	0.0000		0.0000	0.0000	1.3616	18.2814	19.6430	0.1406	3.4600e-003	24.1898
Total	**9.7611**	**78.5473**	**94.2982**	**0.3890**	**27.0364**	**0.2917**	**27.3281**	**7.2440**	**0.2742**	**7.5182**	**15.9130**	**36,358.3530**	**36,374.2660**	**3.3544**	**7.5800e-003**	**36,460.3851**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**47.77**	**0.00**	**0.04**	**20.41**	**0.00**	**0.10**

3.0 Construction Detail

Construction Phase

Curci Vineyard III Mit Tier 4i HRA - Riverside-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	2/1/2021	2/5/2021	5	5	
2	Grading	Grading	2/6/2021	5/6/2021	5	64	
3	Trenching	Trenching	5/7/2021	5/20/2021	5	10	
4	Building Construction	Building Construction	5/7/2021	9/14/2021	5	93	
5	Paving	Paving	9/15/2021	9/21/2021	5	5	
6	Architectural Coating	Architectural Coating	9/21/2021	9/30/2021	5	8	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 6.2

Acres of Paving: 6.05

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 48,510; Non-Residential Outdoor: 16,170; Striped Parking Area: 15,899 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Scrapers	3	8.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rollers	1	8.00	80	0.38
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	2	1.00	231	0.29
Building Construction	Forklifts	2	8.00	89	0.20
Building Construction	Generator Sets	6	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Architectural Coating	Air Compressors	2	8.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	4	10.00	0.00	0.00	0.00	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Grading	5	14.00	2.00	5,000.00	0.00	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Trenching	0		0.00	0.00	0.00	0.19	0.19			
Building Construction	13	122.00	24.00	0.00	0.00	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Paving	5	14.00	620.00	0.00	0.00	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	24.00	0.00	0.00	0.00	0.19	0.19	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.4400e-003	0.0850	0.0582	1.2000e-004		3.4000e-003	3.4000e-003		3.1300e-003	3.1300e-003	0.0000	10.6699	10.6699	3.4500e-003	0.0000	10.7562
Total	**7.4400e-003**	**0.0850**	**0.0582**	**1.2000e-004**	**0.0000**	**3.4000e-003**	**3.4000e-003**	**0.0000**	**3.1300e-003**	**3.1300e-003**	**0.0000**	**10.6699**	**10.6699**	**3.4500e-003**	**0.0000**	**10.7562**

3.2 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	1.0000e-005	1.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4.8700e-003	4.8700e-003	0.0000	0.0000	4.8800e-003
Total	**3.0000e-005**	**1.0000e-005**	**1.0000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**4.8700e-003**	**4.8700e-003**	**0.0000**	**0.0000**	**4.8800e-003**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0400e-003	0.0335	0.0664	1.2000e-004		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	10.6699	10.6699	3.4500e-003	0.0000	10.7562
Total	**2.0400e-003**	**0.0335**	**0.0664**	**1.2000e-004**	**0.0000**	**2.0000e-004**	**2.0000e-004**	**0.0000**	**2.0000e-004**	**2.0000e-004**	**0.0000**	**10.6699**	**10.6699**	**3.4500e-003**	**0.0000**	**10.7562**

3.2 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	1.0000e-005	1.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4.8700e-003	4.8700e-003	0.0000	0.0000	4.8800e-003
Total	**3.0000e-005**	**1.0000e-005**	**1.0000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**4.8700e-003**	**4.8700e-003**	**0.0000**	**0.0000**	**4.8800e-003**

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.5000e-003	0.0000	5.5000e-003	6.9000e-004	0.0000	6.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0399	0.4414	0.3661	6.6000e-004		0.0203	0.0203		0.0186	0.0186	0.0000	57.9949	57.9949	0.0188	0.0000	58.4639
Total	**0.0399**	**0.4414**	**0.3661**	**6.6000e-004**	**5.5000e-003**	**0.0203**	**0.0258**	**6.9000e-004**	**0.0186**	**0.0193**	**0.0000**	**57.9949**	**57.9949**	**0.0188**	**0.0000**	**58.4639**

3.3 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.0400e-003	0.2619	0.0269	3.6000e-004	4.6000e-004	1.0000e-004	5.7000e-004	1.3000e-004	1.0000e-004	2.3000e-004	0.0000	34.5698	34.5698	7.7200e-003	0.0000	34.7627
Vendor	1.0000e-004	4.2300e-003	8.0000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.4756	0.4756	1.0000e-004	0.0000	0.4782
Worker	4.6000e-004	1.3000e-004	1.8800e-003	0.0000	0.0000	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0872	0.0872	1.0000e-005	0.0000	0.0875
Total	**5.6000e-003**	**0.2662**	**0.0295**	**3.6000e-004**	**4.7000e-004**	**1.0000e-004**	**5.9000e-004**	**1.3000e-004**	**1.0000e-004**	**2.4000e-004**	**0.0000**	**35.1326**	**35.1326**	**7.8300e-003**	**0.0000**	**35.3283**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.1500e-003	0.0000	2.1500e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0118	0.2521	0.4513	6.6000e-004		1.0800e-003	1.0800e-003		1.0800e-003	1.0800e-003	0.0000	57.9949	57.9949	0.0188	0.0000	58.4638
Total	**0.0118**	**0.2521**	**0.4513**	**6.6000e-004**	**2.1500e-003**	**1.0800e-003**	**3.2300e-003**	**2.7000e-004**	**1.0800e-003**	**1.3500e-003**	**0.0000**	**57.9949**	**57.9949**	**0.0188**	**0.0000**	**58.4638**

3.3 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.0400e-003	0.2619	0.0269	3.6000e-004	3.8000e-004	1.0000e-004	4.9000e-004	1.1000e-004	1.0000e-004	2.1000e-004	0.0000	34.5698	34.5698	7.7200e-003	0.0000	34.7627
Vendor	1.0000e-004	4.2300e-003	8.0000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.4756	0.4756	1.0000e-004	0.0000	0.4782
Worker	4.6000e-004	1.3000e-004	1.8800e-003	0.0000	0.0000	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0872	0.0872	1.0000e-005	0.0000	0.0875
Total	**5.6000e-003**	**0.2662**	**0.0295**	**3.6000e-004**	**3.9000e-004**	**1.0000e-004**	**5.1000e-004**	**1.1000e-004**	**1.0000e-004**	**2.1000e-004**	**0.0000**	**35.1326**	**35.1326**	**7.8300e-003**	**0.0000**	**35.3283**

3.4 Trenching - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.4 Trenching - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1427	1.3139	1.4750	2.4800e-003		0.0725	0.0725		0.0704	0.0704	0.0000	214.1540	214.1540	0.0263	0.0000	214.8117
Total	**0.1427**	**1.3139**	**1.4750**	**2.4800e-003**		**0.0725**	**0.0725**		**0.0704**	**0.0704**	**0.0000**	**214.1540**	**214.1540**	**0.0263**	**0.0000**	**214.8117**

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.6900e-003	0.0737	0.0140	9.0000e-005	2.2000e-004	3.0000e-005	2.5000e-004	7.0000e-005	3.0000e-005	9.0000e-005	0.0000	8.2927	8.2927	1.8000e-003	0.0000	8.3378
Worker	5.8200e-003	1.6200e-003	0.0238	1.0000e-005	6.0000e-005	4.0000e-005	9.0000e-005	2.0000e-005	3.0000e-005	5.0000e-005	0.0000	1.1046	1.1046	1.1000e-004	0.0000	1.1073
Total	**7.5100e-003**	**0.0753**	**0.0377**	**1.0000e-004**	**2.8000e-004**	**7.0000e-005**	**3.4000e-004**	**9.0000e-005**	**6.0000e-005**	**1.4000e-004**	**0.0000**	**9.3973**	**9.3973**	**1.9100e-003**	**0.0000**	**9.4451**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0477	0.9237	1.6022	2.4800e-003		3.5000e-003	3.5000e-003		3.5000e-003	3.5000e-003	0.0000	214.1538	214.1538	0.0263	0.0000	214.8115
Total	**0.0477**	**0.9237**	**1.6022**	**2.4800e-003**		**3.5000e-003**	**3.5000e-003**		**3.5000e-003**	**3.5000e-003**	**0.0000**	**214.1538**	**214.1538**	**0.0263**	**0.0000**	**214.8115**

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.6900e-003	0.0737	0.0140	9.0000e-005	1.9000e-004	3.0000e-005	2.1000e-004	6.0000e-005	3.0000e-005	8.0000e-005	0.0000	8.2927	8.2927	1.8000e-003	0.0000	8.3378
Worker	5.8200e-003	1.6200e-003	0.0238	1.0000e-005	6.0000e-005	4.0000e-005	9.0000e-005	2.0000e-005	3.0000e-005	5.0000e-005	0.0000	1.1046	1.1046	1.1000e-004	0.0000	1.1073
Total	**7.5100e-003**	**0.0753**	**0.0377**	**1.0000e-004**	**2.5000e-004**	**7.0000e-005**	**3.0000e-004**	**8.0000e-005**	**6.0000e-005**	**1.3000e-004**	**0.0000**	**9.3973**	**9.3973**	**1.9100e-003**	**0.0000**	**9.4451**

3.6 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.5000e-003	0.0256	0.0280	4.0000e-005		1.4600e-003	1.4600e-003		1.3400e-003	1.3400e-003	0.0000	3.5495	3.5495	1.1500e-003	0.0000	3.5782
Paving	7.3900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**9.8900e-003**	**0.0256**	**0.0280**	**4.0000e-005**		**1.4600e-003**	**1.4600e-003**		**1.3400e-003**	**1.3400e-003**	**0.0000**	**3.5495**	**3.5495**	**1.1500e-003**	**0.0000**	**3.5782**

3.6 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.3500e-003	0.1024	0.0194	1.2000e-004	3.1000e-004	4.0000e-005	3.5000e-004	9.0000e-005	4.0000e-005	1.3000e-004	0.0000	11.5176	11.5176	2.5100e-003	0.0000	11.5803
Worker	4.0000e-005	1.0000e-005	1.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6.8100e-003	6.8100e-003	0.0000	0.0000	6.8300e-003
Total	**2.3900e-003**	**0.1024**	**0.0196**	**1.2000e-004**	**3.1000e-004**	**4.0000e-005**	**3.5000e-004**	**9.0000e-005**	**4.0000e-005**	**1.3000e-004**	**0.0000**	**11.5245**	**11.5245**	**2.5100e-003**	**0.0000**	**11.5871**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.9000e-004	0.0177	0.0305	4.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	3.5494	3.5494	1.1500e-003	0.0000	3.5781
Paving	7.3900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**8.1800e-003**	**0.0177**	**0.0305**	**4.0000e-005**		**7.0000e-005**	**7.0000e-005**		**7.0000e-005**	**7.0000e-005**	**0.0000**	**3.5494**	**3.5494**	**1.1500e-003**	**0.0000**	**3.5781**

3.6 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.3500e-003	0.1024	0.0194	1.2000e-004	2.6000e-004	4.0000e-005	3.0000e-004	8.0000e-005	4.0000e-005	1.2000e-004	0.0000	11.5176	11.5176	2.5100e-003	0.0000	11.5803
Worker	4.0000e-005	1.0000e-005	1.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6.8100e-003	6.8100e-003	0.0000	0.0000	6.8300e-003
Total	**2.3900e-003**	**0.1024**	**0.0196**	**1.2000e-004**	**2.6000e-004**	**4.0000e-005**	**3.0000e-004**	**8.0000e-005**	**4.0000e-005**	**1.2000e-004**	**0.0000**	**11.5245**	**11.5245**	**2.5100e-003**	**0.0000**	**11.5871**

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1118					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.3300e-003	0.0163	0.0194	3.0000e-005		1.0000e-003	1.0000e-003		1.0000e-003	1.0000e-003	0.0000	2.7235	2.7235	1.9000e-004	0.0000	2.7281
Total	**0.1141**	**0.0163**	**0.0194**	**3.0000e-005**		**1.0000e-003**	**1.0000e-003**		**1.0000e-003**	**1.0000e-003**	**0.0000**	**2.7235**	**2.7235**	**1.9000e-004**	**0.0000**	**2.7281**

3.7 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-004	3.0000e-005	4.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0187	0.0187	0.0000	0.0000	0.0187
Total	**1.0000e-004**	**3.0000e-005**	**4.0000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0187**	**0.0187**	**0.0000**	**0.0000**	**0.0187**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1118					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.8000e-004	0.0113	0.0196	3.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	2.7235	2.7235	1.9000e-004	0.0000	2.7281
Total	**0.1124**	**0.0113**	**0.0196**	**3.0000e-005**		**4.0000e-005**	**4.0000e-005**		**4.0000e-005**	**4.0000e-005**	**0.0000**	**2.7235**	**2.7235**	**1.9000e-004**	**0.0000**	**2.7281**

3.7 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-004	3.0000e-005	4.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0187	0.0187	0.0000	0.0000	0.0187
Total	**1.0000e-004**	**3.0000e-005**	**4.0000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0187**	**0.0187**	**0.0000**	**0.0000**	**0.0187**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	9.5940	78.4189	94.1872	0.3882	27.0364	0.2819	27.3183	7.2440	0.2645	7.5085	0.0000	36,022.1846	36,022.1846	2.3437	0.0000	36,080.7775
Unmitigated	9.5940	78.4189	94.1872	0.3882	27.0364	0.2819	27.3183	7.2440	0.2645	7.5085	0.0000	36,022.1846	36,022.1846	2.3437	0.0000	36,080.7775

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Automobile Care Center	260.48	260.48	130.44	372,571	372,571
Automobile Care Center	325.60	325.60	163.05	465,713	465,713
Bank (with Drive-Through)	2,570.40	1,497.65	553.47	2,693,921	2,693,921
Fast Food Restaurant with Drive Thru	12,403.00	18,050.75	13568.00	16,697,492	16,697,492
High Turnover (Sit Down Restaurant)	1,144.35	1,425.33	1186.56	1,910,776	1,910,776
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	19,929.73	23,322.89	11780.50	48,668,752	48,668,752
Total	36,633.56	44,882.70	27,382.02	70,809,224	70,809,224

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Automobile Care Center	18.50	10.10	7.90	33.00	48.00	19.00	21	51	28
Automobile Care Center	18.50	10.10	7.90	33.00	48.00	19.00	21	51	28
Bank (with Drive-Through)	18.50	10.10	7.90	6.60	74.40	19.00	27	26	47
Fast Food Restaurant with Drive	18.50	10.10	7.90	2.20	78.80	19.00	29	21	50
High Turnover (Sit Down	18.50	10.10	7.90	8.50	72.50	19.00	37	20	43
Other Asphalt Surfaces	18.50	10.10	7.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	18.50	10.10	7.90	0.00	0.00	0.00	0	0	0
Parking Lot	18.50	10.10	7.90	0.00	0.00	0.00	0	0	0
Regional Shopping Center	18.50	10.10	7.90	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Automobile Care Center	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Bank (with Drive-Through)	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Fast Food Restaurant with Drive Thru	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
High Turnover (Sit Down Restaurant)	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Other Asphalt Surfaces	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Other Non-Asphalt Surfaces	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Parking Lot	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Regional Shopping Center	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	178.1202	178.1202	7.4600e-003	1.5500e-003	178.7694
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	178.1202	178.1202	7.4600e-003	1.5500e-003	178.7694
NaturalGas Mitigated	0.0141	0.1284	0.1078	7.7000e-004		9.7600e-003	9.7600e-003		9.7600e-003	9.7600e-003	0.0000	139.7610	139.7610	2.6800e-003	2.5600e-003	140.5915
NaturalGas Unmitigated	0.0141	0.1284	0.1078	7.7000e-004		9.7600e-003	9.7600e-003		9.7600e-003	9.7600e-003	0.0000	139.7610	139.7610	2.6800e-003	2.5600e-003	140.5915

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Automobile Care Center	129960	7.0000e-004	6.3700e-003	5.3500e-003	4.0000e-005		4.8000e-004	4.8000e-004		4.8000e-004	4.8000e-004	0.0000	6.9352	6.9352	1.3000e-004	1.3000e-004	6.9764
Automobile Care Center	162450	8.8000e-004	7.9600e-003	6.6900e-003	5.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	8.6690	8.6690	1.7000e-004	1.6000e-004	8.7205
Bank (with Drive-Through)	112740	6.1000e-004	5.5300e-003	4.6400e-003	3.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004	0.0000	6.0163	6.0163	1.2000e-004	1.1000e-004	6.0520
Fast Food Restaurant with Drive Thru	1.3672e+006	7.3700e-003	0.0670	0.0563	4.0000e-004		5.0900e-003	5.0900e-003		5.0900e-003	5.0900e-003	0.0000	72.9590	72.9590	1.4000e-003	1.3400e-003	73.3926
High Turnover (Sit Down Restaurant)	820320	4.4200e-003	0.0402	0.0338	2.4000e-004		3.0600e-003	3.0600e-003		3.0600e-003	3.0600e-003	0.0000	43.7754	43.7754	8.4000e-004	8.0000e-004	44.0355
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	26351.4	1.4000e-004	1.2900e-003	1.0900e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	1.4062	1.4062	3.0000e-005	3.0000e-005	1.4146
Total		**0.0141**	**0.1284**	**0.1079**	**7.7000e-004**		**9.7600e-003**	**9.7600e-003**		**9.7600e-003**	**9.7600e-003**	**0.0000**	**139.7610**	**139.7610**	**2.6900e-003**	**2.5700e-003**	**140.5915**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Automobile Care Center	129960	7.0000e-004	6.3700e-003	5.3500e-003	4.0000e-005		4.8000e-004	4.8000e-004		4.8000e-004	4.8000e-004	0.0000	6.9352	6.9352	1.3000e-004	1.3000e-004	6.9764
Automobile Care Center	162450	8.8000e-004	7.9600e-003	6.6900e-003	5.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	8.6690	8.6690	1.7000e-004	1.6000e-004	8.7205
Bank (with Drive-Through)	112740	6.1000e-004	5.5300e-003	4.6400e-003	3.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004	0.0000	6.0163	6.0163	1.2000e-004	1.1000e-004	6.0520
Fast Food Restaurant with Drive Thru	1.3672e+006	7.3700e-003	0.0670	0.0563	4.0000e-004		5.0900e-003	5.0900e-003		5.0900e-003	5.0900e-003	0.0000	72.9590	72.9590	1.4000e-003	1.3400e-003	73.3926
High Turnover (Sit Down Restaurant)	820320	4.4200e-003	0.0402	0.0338	2.4000e-004		3.0600e-003	3.0600e-003		3.0600e-003	3.0600e-003	0.0000	43.7754	43.7754	8.4000e-004	8.0000e-004	44.0355
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	26351.4	1.4000e-004	1.2900e-003	1.0900e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	1.4062	1.4062	3.0000e-005	3.0000e-005	1.4146
Total		**0.0141**	**0.1284**	**0.1079**	**7.7000e-004**		**9.7600e-003**	**9.7600e-003**		**9.7600e-003**	**9.7600e-003**	**0.0000**	**139.7610**	**139.7610**	**2.6900e-003**	**2.5700e-003**	**140.5915**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	40600	10.5589	4.4000e-004	9.0000e-005	10.5974
Automobile Care Center	50750	13.1986	5.5000e-004	1.2000e-004	13.2468
Bank (with Drive-Through)	35220.5	9.1599	3.8000e-004	8.0000e-005	9.1933
Fast Food Restaurant with Drive Thru	237400	61.7410	2.5800e-003	5.4000e-004	61.9661
High Turnover (Sit Down Restaurant)	142440	37.0446	1.5500e-003	3.2000e-004	37.1797
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	28560	7.4277	3.1000e-004	6.0000e-005	7.4547
Regional Shopping Center	149918	38.9895	1.6300e-003	3.4000e-004	39.1316
Total		**178.1202**	**7.4400e-003**	**1.5500e-003**	**178.7694**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	40600	10.5589	4.4000e-004	9.0000e-005	10.5974
Automobile Care Center	50750	13.1986	5.5000e-004	1.2000e-004	13.2468
Bank (with Drive-Through)	35220.5	9.1599	3.8000e-004	8.0000e-005	9.1933
Fast Food Restaurant with Drive Thru	237400	61.7410	2.5800e-003	5.4000e-004	61.9661
High Turnover (Sit Down Restaurant)	142440	37.0446	1.5500e-003	3.2000e-004	37.1797
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	28560	7.4277	3.1000e-004	6.0000e-005	7.4547
Regional Shopping Center	149918	38.9895	1.6300e-003	3.4000e-004	39.1316
Total		**178.1202**	**7.4400e-003**	**1.5500e-003**	**178.7694**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1530	3.0000e-005	3.0800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.9700e-003	5.9700e-003	2.0000e-005	0.0000	6.3700e-003
Unmitigated	0.1530	3.0000e-005	3.0800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.9700e-003	5.9700e-003	2.0000e-005	0.0000	6.3700e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0187					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1340					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.9000e-004	3.0000e-005	3.0800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.9700e-003	5.9700e-003	2.0000e-005	0.0000	6.3700e-003
Total	**0.1530**	**3.0000e-005**	**3.0800e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**5.9700e-003**	**5.9700e-003**	**2.0000e-005**	**0.0000**	**6.3700e-003**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0187					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1340					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.9000e-004	3.0000e-005	3.0800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.9700e-003	5.9700e-003	2.0000e-005	0.0000	6.3700e-003
Total	**0.1530**	**3.0000e-005**	**3.0800e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**5.9700e-003**	**5.9700e-003**	**2.0000e-005**	**0.0000**	**6.3700e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	19.6430	0.1406	3.4600e-003	24.1898
Unmitigated	19.6430	0.1406	3.4600e-003	24.1898

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	0.84673 / 0.518964	4.6355	0.0278	6.9000e-004	5.5353
Bank (with Drive-Through)	0.137492 / 0.084269	0.7527	4.5100e-003	1.1000e-004	0.8988
Fast Food Restaurant with Drive Thru	1.51767 / 0.0968725	5.9008	0.0497	1.2100e-003	7.5049
High Turnover (Sit Down Restaurant)	0.910601 / 0.0581235	3.5405	0.0298	7.3000e-004	4.5029
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0.879241 / 0.53889	4.8135	0.0288	7.2000e-004	5.7478
Total		**19.6430**	**0.1406**	**3.4600e-003**	**24.1898**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	0.84673 / 0.518964	4.6355	0.0278	6.9000e-004	5.5353
Bank (with Drive-Through)	0.137492 / 0.084269	0.7527	4.5100e-003	1.1000e-004	0.8988
Fast Food Restaurant with Drive Thru	1.51767 / 0.0968725	5.9008	0.0497	1.2100e-003	7.5049
High Turnover (Sit Down Restaurant)	0.910601 / 0.0581235	3.5405	0.0298	7.3000e-004	4.5029
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0.879241 / 0.53889	4.8135	0.0288	7.2000e-004	5.7478
Total		**19.6430**	**0.1406**	**3.4600e-003**	**24.1898**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	14.5514	0.8600	0.0000	36.0505
Unmitigated	29.1028	1.7199	0.0000	72.1010

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	34.38	6.9788	0.4124	0.0000	17.2898
Bank (with Drive-Through)	3.24	0.6577	0.0389	0.0000	1.6294
Fast Food Restaurant with Drive Thru	57.59	11.6903	0.6909	0.0000	28.9621
High Turnover (Sit Down Restaurant)	35.7	7.2468	0.4283	0.0000	17.9536
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	12.46	2.5293	0.1495	0.0000	6.2662
Total		**29.1028**	**1.7199**	**0.0000**	**72.1010**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	17.19	3.4894	0.2062	0.0000	8.6449
Bank (with Drive-Through)	1.62	0.3289	0.0194	0.0000	0.8147
Fast Food Restaurant with Drive Thru	28.795	5.8451	0.3454	0.0000	14.4811
High Turnover (Sit Down Restaurant)	17.85	3.6234	0.2141	0.0000	8.9768
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	6.23	1.2646	0.0747	0.0000	3.1331
Total		**14.5514**	**0.8600**	**0.0000**	**36.0505**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Curci Vineyard III Unmit HRA

Riverside-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Bank (with Drive-Through)	3.47	1000sqft	0.08	3,470.00	0
Other Asphalt Surfaces	3.80	Acre	3.80	165,528.00	0
Other Non-Asphalt Surfaces	0.41	Acre	0.41	17,859.60	0
Parking Lot	204.00	Space	1.84	81,600.00	0
Fast Food Restaurant with Drive Thru	5.00	1000sqft	0.11	5,000.00	0
High Turnover (Sit Down Restaurant)	3.00	1000sqft	0.07	3,000.00	0
Automobile Care Center	4.00	1000sqft	0.09	4,000.00	0
Automobile Care Center	5.00	1000sqft	0.11	5,000.00	0
Regional Shopping Center	11.87	1000sqft	0.27	11,870.00	0

1.2 Other Project Characteristics

Urbanization	Rural	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	573.36	**CH4 Intensity (lb/MWhr)**	0.024	**N2O Intensity (lb/MWhr)**	0.005

1.3 User Entered Comments & Non-Default Data

Project Characteristics - SCE RPS adjusted to year 2021 based on 2050 RPS goal of 50%.

Land Use - Land use acreages provided by applicant.

Construction Phase - Construction phase schedule provided by applicant.

Off-road Equipment - Equipment assumptions provided by applicant.

Off-road Equipment - Equipment assumptions provided by applicant.

Off-road Equipment - Equipment assumptions provided by applicant.

Off-road Equipment - Equipment assumptions provided by applicant.

Off-road Equipment - Equipment assumptions provided by applicant.

Trips and VMT - Soil export based on haul truck capacity of 14 cy. Vendor trip delivery assumptions from applicant. Assume diesel-fueled trucks travel onsite 0.19 miles (1,000 feet).

Grading - Soil export and grading acreages from project applicant.

Architectural Coating - Applicant use low VOC paints for interior and exterior.

Vehicle Trips - Based on project specific traffic report, weekend trip rates scaled based on CalEEMod defaults.

Energy Use -

Construction Off-road Equipment Mitigation - Dust control measures.

Waste Mitigation - AB 341

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstructionPhase	NumDays	10.00	5.00
tblConstructionPhase	NumDays	20.00	64.00
tblConstructionPhase	NumDays	230.00	93.00
tblConstructionPhase	NumDays	20.00	5.00
tblConstructionPhase	NumDays	20.00	8.00
tblGrading	AcresOfGrading	32.00	6.20
tblGrading	AcresOfGrading	15.00	0.00
tblGrading	MaterialExported	0.00	35,000.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	1.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.024
tblProjectCharacteristics	CO2IntensityFactor	702.44	573.36
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.005
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripLength	20.00	0.19

tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripNumber	4,375.00	5,000.00
tblTripsAndVMT	HaulingVehicleClass		HHDT
tblTripsAndVMT	VendorTripLength	7.90	0.19
tblTripsAndVMT	VendorTripLength	7.90	0.19
tblTripsAndVMT	VendorTripLength	7.90	0.19
tblTripsAndVMT	VendorTripLength	7.90	0.19
tblTripsAndVMT	VendorTripLength	7.90	0.19
tblTripsAndVMT	VendorTripLength	7.90	0.19
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	49.00	24.00
tblTripsAndVMT	VendorTripNumber	0.00	620.00
tblTripsAndVMT	VendorVehicleClass		HDT_Mix
tblTripsAndVMT	WorkerTripLength	19.80	0.00
tblTripsAndVMT	WorkerTripLength	19.80	0.00
tblTripsAndVMT	WorkerTripLength	19.80	0.00
tblTripsAndVMT	WorkerTripLength	19.80	0.00
tblTripsAndVMT	WorkerTripLength	19.80	0.00
tblTripsAndVMT	WorkerTripLength	19.80	0.00
tblTripsAndVMT	WorkerTripNumber	13.00	14.00
tblTripsAndVMT	WorkerTripNumber	13.00	14.00
tblTripsAndVMT	WorkerVehicleClass		LD_Mix
tblVehicleTrips	ST_TR	23.72	65.12
tblVehicleTrips	ST_TR	86.32	431.60

tblVehicleTrips	ST_TR	722.03	3,610.15
tblVehicleTrips	ST_TR	158.37	475.11
tblVehicleTrips	ST_TR	49.97	1,964.86
tblVehicleTrips	SU_TR	11.88	32.61
tblVehicleTrips	SU_TR	31.90	159.50
tblVehicleTrips	SU_TR	542.72	2,713.60
tblVehicleTrips	SU_TR	131.84	395.52
tblVehicleTrips	SU_TR	25.24	992.46
tblVehicleTrips	WD_TR	23.72	65.12
tblVehicleTrips	WD_TR	148.15	740.75
tblVehicleTrips	WD_TR	496.12	2,480.60
tblVehicleTrips	WD_TR	127.15	381.45
tblVehicleTrips	WD_TR	42.70	1,679.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.3296	2.3261	2.0340	3.9200e-003	6.5700e-003	0.0988	0.1054	1.0100e-003	0.0947	0.0957	0.0000	345.1697	345.1697	0.0621	0.0000	346.7223
Maximum	**0.3296**	**2.3261**	**2.0340**	**3.9200e-003**	**6.5700e-003**	**0.0988**	**0.1054**	**1.0100e-003**	**0.0947**	**0.0957**	**0.0000**	**345.1697**	**345.1697**	**0.0621**	**0.0000**	**346.7223**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.3296	2.3261	2.0340	3.9200e-003	3.0500e-003	0.0988	0.1019	5.5000e-004	0.0947	0.0953	0.0000	345.1694	345.1694	0.0621	0.0000	346.7219
Maximum	**0.3296**	**2.3261**	**2.0340**	**3.9200e-003**	**3.0500e-003**	**0.0988**	**0.1019**	**5.5000e-004**	**0.0947**	**0.0953**	**0.0000**	**345.1694**	**345.1694**	**0.0621**	**0.0000**	**346.7219**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**53.58**	**0.00**	**3.35**	**45.54**	**0.00**	**0.48**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	2-1-2021	4-30-2021	0.7698	0.7698
2	5-1-2021	7-31-2021	1.0695	1.0695
3	8-1-2021	9-30-2021	0.7912	0.7912
		Highest	1.0695	1.0695

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1530	3.0000e-005	3.0800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.9700e-003	5.9700e-003	2.0000e-005	0.0000	6.3700e-003
Energy	0.0141	0.1284	0.1078	7.7000e-004		9.7600e-003	9.7600e-003		9.7600e-003	9.7600e-003	0.0000	317.8811	317.8811	0.0101	4.1200e-003	319.3609
Mobile	9.5940	78.4189	94.1872	0.3882	27.0364	0.2819	27.3183	7.2440	0.2645	7.5085	0.0000	36,022.1846	36,022.1846	2.3437	0.0000	36,080.7775
Waste						0.0000	0.0000		0.0000	0.0000	29.1028	0.0000	29.1028	1.7199	0.0000	72.1010
Water						0.0000	0.0000		0.0000	0.0000	1.3616	18.2814	19.6430	0.1406	3.4600e-003	24.1898
Total	**9.7611**	**78.5473**	**94.2982**	**0.3890**	**27.0364**	**0.2917**	**27.3281**	**7.2440**	**0.2742**	**7.5182**	**30.4644**	**36,358.3530**	**36,388.8174**	**4.2144**	**7.5800e-003**	**36,496.4355**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1530	3.0000e-005	3.0800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.9700e-003	5.9700e-003	2.0000e-005	0.0000	6.3700e-003
Energy	0.0141	0.1284	0.1078	7.7000e-004		9.7600e-003	9.7600e-003		9.7600e-003	9.7600e-003	0.0000	317.8811	317.8811	0.0101	4.1200e-003	319.3609
Mobile	9.5940	78.4189	94.1872	0.3882	27.0364	0.2819	27.3183	7.2440	0.2645	7.5085	0.0000	36,022.1846	36,022.1846	2.3437	0.0000	36,080.7775
Waste						0.0000	0.0000		0.0000	0.0000	14.5514	0.0000	14.5514	0.8600	0.0000	36.0505
Water						0.0000	0.0000		0.0000	0.0000	1.3616	18.2814	19.6430	0.1406	3.4600e-003	24.1898
Total	**9.7611**	**78.5473**	**94.2982**	**0.3890**	**27.0364**	**0.2917**	**27.3281**	**7.2440**	**0.2742**	**7.5182**	**15.9130**	**36,358.3530**	**36,374.2660**	**3.3544**	**7.5800e-003**	**36,460.3851**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**47.77**	**0.00**	**0.04**	**20.41**	**0.00**	**0.10**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	2/1/2021	2/5/2021	5	5	
2	Grading	Grading	2/6/2021	5/6/2021	5	64	
3	Trenching	Trenching	5/7/2021	5/20/2021	5	10	
4	Building Construction	Building Construction	5/7/2021	9/14/2021	5	93	
5	Paving	Paving	9/15/2021	9/21/2021	5	5	
6	Architectural Coating	Architectural Coating	9/21/2021	9/30/2021	5	8	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 6.2

Acres of Paving: 6.05

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 48,510; Non-Residential Outdoor: 16,170; Striped Parking Area: 15,899 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Scrapers	3	8.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rollers	1	8.00	80	0.38
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	2	1.00	231	0.29
Building Construction	Forklifts	2	8.00	89	0.20
Building Construction	Generator Sets	6	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Architectural Coating	Air Compressors	2	8.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	4	10.00	0.00	0.00	0.00	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Grading	5	14.00	2.00	5,000.00	0.00	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Trenching	0		0.00	0.00	0.00	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Building Construction	13	122.00	24.00	0.00	0.00	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Paving	5	14.00	620.00	0.00	0.00	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	24.00	0.00	0.00	0.00	0.19	0.19	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.4400e-003	0.0850	0.0582	1.2000e-004		3.4000e-003	3.4000e-003		3.1300e-003	3.1300e-003	0.0000	10.6699	10.6699	3.4500e-003	0.0000	10.7562
Total	**7.4400e-003**	**0.0850**	**0.0582**	**1.2000e-004**	**0.0000**	**3.4000e-003**	**3.4000e-003**	**0.0000**	**3.1300e-003**	**3.1300e-003**	**0.0000**	**10.6699**	**10.6699**	**3.4500e-003**	**0.0000**	**10.7562**

3.2 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	1.0000e-005	1.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4.8700e-003	4.8700e-003	0.0000	0.0000	4.8800e-003
Total	**3.0000e-005**	**1.0000e-005**	**1.0000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**4.8700e-003**	**4.8700e-003**	**0.0000**	**0.0000**	**4.8800e-003**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.4400e-003	0.0850	0.0582	1.2000e-004		3.4000e-003	3.4000e-003		3.1300e-003	3.1300e-003	0.0000	10.6699	10.6699	3.4500e-003	0.0000	10.7562
Total	**7.4400e-003**	**0.0850**	**0.0582**	**1.2000e-004**	**0.0000**	**3.4000e-003**	**3.4000e-003**	**0.0000**	**3.1300e-003**	**3.1300e-003**	**0.0000**	**10.6699**	**10.6699**	**3.4500e-003**	**0.0000**	**10.7562**

3.2 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	1.0000e-005	1.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4.8700e-003	4.8700e-003	0.0000	0.0000	4.8800e-003
Total	**3.0000e-005**	**1.0000e-005**	**1.0000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**4.8700e-003**	**4.8700e-003**	**0.0000**	**0.0000**	**4.8800e-003**

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.5000e-003	0.0000	5.5000e-003	6.9000e-004	0.0000	6.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0399	0.4414	0.3661	6.6000e-004		0.0203	0.0203		0.0186	0.0186	0.0000	57.9949	57.9949	0.0188	0.0000	58.4639
Total	**0.0399**	**0.4414**	**0.3661**	**6.6000e-004**	**5.5000e-003**	**0.0203**	**0.0258**	**6.9000e-004**	**0.0186**	**0.0193**	**0.0000**	**57.9949**	**57.9949**	**0.0188**	**0.0000**	**58.4639**

3.3 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.0400e-003	0.2619	0.0269	3.6000e-004	4.6000e-004	1.0000e-004	5.7000e-004	1.3000e-004	1.0000e-004	2.3000e-004	0.0000	34.5698	34.5698	7.7200e-003	0.0000	34.7627
Vendor	1.0000e-004	4.2300e-003	8.0000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.4756	0.4756	1.0000e-004	0.0000	0.4782
Worker	4.6000e-004	1.3000e-004	1.8800e-003	0.0000	0.0000	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0872	0.0872	1.0000e-005	0.0000	0.0875
Total	**5.6000e-003**	**0.2662**	**0.0295**	**3.6000e-004**	**4.7000e-004**	**1.0000e-004**	**5.9000e-004**	**1.3000e-004**	**1.0000e-004**	**2.4000e-004**	**0.0000**	**35.1326**	**35.1326**	**7.8300e-003**	**0.0000**	**35.3283**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.1500e-003	0.0000	2.1500e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0399	0.4414	0.3661	6.6000e-004		0.0203	0.0203		0.0186	0.0186	0.0000	57.9949	57.9949	0.0188	0.0000	58.4638
Total	**0.0399**	**0.4414**	**0.3661**	**6.6000e-004**	**2.1500e-003**	**0.0203**	**0.0224**	**2.7000e-004**	**0.0186**	**0.0189**	**0.0000**	**57.9949**	**57.9949**	**0.0188**	**0.0000**	**58.4638**

3.3 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.0400e-003	0.2619	0.0269	3.6000e-004	3.8000e-004	1.0000e-004	4.9000e-004	1.1000e-004	1.0000e-004	2.1000e-004	0.0000	34.5698	34.5698	7.7200e-003	0.0000	34.7627
Vendor	1.0000e-004	4.2300e-003	8.0000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.4756	0.4756	1.0000e-004	0.0000	0.4782
Worker	4.6000e-004	1.3000e-004	1.8800e-003	0.0000	0.0000	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0872	0.0872	1.0000e-005	0.0000	0.0875
Total	**5.6000e-003**	**0.2662**	**0.0295**	**3.6000e-004**	**3.9000e-004**	**1.0000e-004**	**5.1000e-004**	**1.1000e-004**	**1.0000e-004**	**2.1000e-004**	**0.0000**	**35.1326**	**35.1326**	**7.8300e-003**	**0.0000**	**35.3283**

3.4 Trenching - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.4 Trenching - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1427	1.3139	1.4750	2.4800e-003		0.0725	0.0725		0.0704	0.0704	0.0000	214.1540	214.1540	0.0263	0.0000	214.8117
Total	**0.1427**	**1.3139**	**1.4750**	**2.4800e-003**		**0.0725**	**0.0725**		**0.0704**	**0.0704**	**0.0000**	**214.1540**	**214.1540**	**0.0263**	**0.0000**	**214.8117**

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.6900e-003	0.0737	0.0140	9.0000e-005	2.2000e-004	3.0000e-005	2.5000e-004	7.0000e-005	3.0000e-005	9.0000e-005	0.0000	8.2927	8.2927	1.8000e-003	0.0000	8.3378
Worker	5.8200e-003	1.6200e-003	0.0238	1.0000e-005	6.0000e-005	4.0000e-005	9.0000e-005	2.0000e-005	3.0000e-005	5.0000e-005	0.0000	1.1046	1.1046	1.1000e-004	0.0000	1.1073
Total	**7.5100e-003**	**0.0753**	**0.0377**	**1.0000e-004**	**2.8000e-004**	**7.0000e-005**	**3.4000e-004**	**9.0000e-005**	**6.0000e-005**	**1.4000e-004**	**0.0000**	**9.3973**	**9.3973**	**1.9100e-003**	**0.0000**	**9.4451**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1427	1.3139	1.4750	2.4800e-003		0.0725	0.0725		0.0704	0.0704	0.0000	214.1538	214.1538	0.0263	0.0000	214.8115
Total	**0.1427**	**1.3139**	**1.4750**	**2.4800e-003**		**0.0725**	**0.0725**		**0.0704**	**0.0704**	**0.0000**	**214.1538**	**214.1538**	**0.0263**	**0.0000**	**214.8115**

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.6900e-003	0.0737	0.0140	9.0000e-005	1.9000e-004	3.0000e-005	2.1000e-004	6.0000e-005	3.0000e-005	8.0000e-005	0.0000	8.2927	8.2927	1.8000e-003	0.0000	8.3378
Worker	5.8200e-003	1.6200e-003	0.0238	1.0000e-005	6.0000e-005	4.0000e-005	9.0000e-005	2.0000e-005	3.0000e-005	5.0000e-005	0.0000	1.1046	1.1046	1.1000e-004	0.0000	1.1073
Total	**7.5100e-003**	**0.0753**	**0.0377**	**1.0000e-004**	**2.5000e-004**	**7.0000e-005**	**3.0000e-004**	**8.0000e-005**	**6.0000e-005**	**1.3000e-004**	**0.0000**	**9.3973**	**9.3973**	**1.9100e-003**	**0.0000**	**9.4451**

3.6 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.5000e-003	0.0256	0.0280	4.0000e-005		1.4600e-003	1.4600e-003		1.3400e-003	1.3400e-003	0.0000	3.5495	3.5495	1.1500e-003	0.0000	3.5782
Paving	7.3900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**9.8900e-003**	**0.0256**	**0.0280**	**4.0000e-005**		**1.4600e-003**	**1.4600e-003**		**1.3400e-003**	**1.3400e-003**	**0.0000**	**3.5495**	**3.5495**	**1.1500e-003**	**0.0000**	**3.5782**

3.6 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.3500e-003	0.1024	0.0194	1.2000e-004	3.1000e-004	4.0000e-005	3.5000e-004	9.0000e-005	4.0000e-005	1.3000e-004	0.0000	11.5176	11.5176	2.5100e-003	0.0000	11.5803
Worker	4.0000e-005	1.0000e-005	1.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6.8100e-003	6.8100e-003	0.0000	0.0000	6.8300e-003
Total	**2.3900e-003**	**0.1024**	**0.0196**	**1.2000e-004**	**3.1000e-004**	**4.0000e-005**	**3.5000e-004**	**9.0000e-005**	**4.0000e-005**	**1.3000e-004**	**0.0000**	**11.5245**	**11.5245**	**2.5100e-003**	**0.0000**	**11.5871**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.5000e-003	0.0256	0.0280	4.0000e-005		1.4600e-003	1.4600e-003		1.3400e-003	1.3400e-003	0.0000	3.5494	3.5494	1.1500e-003	0.0000	3.5781
Paving	7.3900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**9.8900e-003**	**0.0256**	**0.0280**	**4.0000e-005**		**1.4600e-003**	**1.4600e-003**		**1.3400e-003**	**1.3400e-003**	**0.0000**	**3.5494**	**3.5494**	**1.1500e-003**	**0.0000**	**3.5781**

3.6 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.3500e-003	0.1024	0.0194	1.2000e-004	2.6000e-004	4.0000e-005	3.0000e-004	8.0000e-005	4.0000e-005	1.2000e-004	0.0000	11.5176	11.5176	2.5100e-003	0.0000	11.5803
Worker	4.0000e-005	1.0000e-005	1.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6.8100e-003	6.8100e-003	0.0000	0.0000	6.8300e-003
Total	**2.3900e-003**	**0.1024**	**0.0196**	**1.2000e-004**	**2.6000e-004**	**4.0000e-005**	**3.0000e-004**	**8.0000e-005**	**4.0000e-005**	**1.2000e-004**	**0.0000**	**11.5245**	**11.5245**	**2.5100e-003**	**0.0000**	**11.5871**

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1118					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.3300e-003	0.0163	0.0194	3.0000e-005		1.0000e-003	1.0000e-003		1.0000e-003	1.0000e-003	0.0000	2.7235	2.7235	1.9000e-004	0.0000	2.7281
Total	**0.1141**	**0.0163**	**0.0194**	**3.0000e-005**		**1.0000e-003**	**1.0000e-003**		**1.0000e-003**	**1.0000e-003**	**0.0000**	**2.7235**	**2.7235**	**1.9000e-004**	**0.0000**	**2.7281**

3.7 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-004	3.0000e-005	4.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0187	0.0187	0.0000	0.0000	0.0187
Total	**1.0000e-004**	**3.0000e-005**	**4.0000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0187**	**0.0187**	**0.0000**	**0.0000**	**0.0187**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1118					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.3300e-003	0.0163	0.0194	3.0000e-005		1.0000e-003	1.0000e-003		1.0000e-003	1.0000e-003	0.0000	2.7235	2.7235	1.9000e-004	0.0000	2.7281
Total	**0.1141**	**0.0163**	**0.0194**	**3.0000e-005**		**1.0000e-003**	**1.0000e-003**		**1.0000e-003**	**1.0000e-003**	**0.0000**	**2.7235**	**2.7235**	**1.9000e-004**	**0.0000**	**2.7281**

3.7 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-004	3.0000e-005	4.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0187	0.0187	0.0000	0.0000	0.0187
Total	**1.0000e-004**	**3.0000e-005**	**4.0000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0187**	**0.0187**	**0.0000**	**0.0000**	**0.0187**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	9.5940	78.4189	94.1872	0.3882	27.0364	0.2819	27.3183	7.2440	0.2645	7.5085	0.0000	36,022.1846	36,022.1846	2.3437	0.0000	36,080.7775
Unmitigated	9.5940	78.4189	94.1872	0.3882	27.0364	0.2819	27.3183	7.2440	0.2645	7.5085	0.0000	36,022.1846	36,022.1846	2.3437	0.0000	36,080.7775

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Automobile Care Center	260.48	260.48	130.44	372,571	372,571
Automobile Care Center	325.60	325.60	163.05	465,713	465,713
Bank (with Drive-Through)	2,570.40	1,497.65	553.47	2,693,921	2,693,921
Fast Food Restaurant with Drive Thru	12,403.00	18,050.75	13568.00	16,697,492	16,697,492
High Turnover (Sit Down Restaurant)	1,144.35	1,425.33	1186.56	1,910,776	1,910,776
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	19,929.73	23,322.89	11780.50	48,668,752	48,668,752
Total	36,633.56	44,882.70	27,382.02	70,809,224	70,809,224

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Automobile Care Center	18.50	10.10	7.90	33.00	48.00	19.00	21	51	28
Automobile Care Center	18.50	10.10	7.90	33.00	48.00	19.00	21	51	28
Bank (with Drive-Through)	18.50	10.10	7.90	6.60	74.40	19.00	27	26	47
Fast Food Restaurant with Drive	18.50	10.10	7.90	2.20	78.80	19.00	29	21	50
High Turnover (Sit Down	18.50	10.10	7.90	8.50	72.50	19.00	37	20	43
Other Asphalt Surfaces	18.50	10.10	7.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	18.50	10.10	7.90	0.00	0.00	0.00	0	0	0
Parking Lot	18.50	10.10	7.90	0.00	0.00	0.00	0	0	0
Regional Shopping Center	18.50	10.10	7.90	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Automobile Care Center	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Bank (with Drive-Through)	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Fast Food Restaurant with Drive Thru	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
High Turnover (Sit Down Restaurant)	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Other Asphalt Surfaces	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Other Non-Asphalt Surfaces	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Parking Lot	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Regional Shopping Center	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	178.1202	178.1202	7.4600e-003	1.5500e-003	178.7694
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	178.1202	178.1202	7.4600e-003	1.5500e-003	178.7694
NaturalGas Mitigated	0.0141	0.1284	0.1078	7.7000e-004		9.7600e-003	9.7600e-003		9.7600e-003	9.7600e-003	0.0000	139.7610	139.7610	2.6800e-003	2.5600e-003	140.5915
NaturalGas Unmitigated	0.0141	0.1284	0.1078	7.7000e-004		9.7600e-003	9.7600e-003		9.7600e-003	9.7600e-003	0.0000	139.7610	139.7610	2.6800e-003	2.5600e-003	140.5915

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Automobile Care Center	129960	7.0000e-004	6.3700e-003	5.3500e-003	4.0000e-005		4.8000e-004	4.8000e-004		4.8000e-004	4.8000e-004	0.0000	6.9352	6.9352	1.3000e-004	1.3000e-004	6.9764
Automobile Care Center	162450	8.8000e-004	7.9600e-003	6.6900e-003	5.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	8.6690	8.6690	1.7000e-004	1.6000e-004	8.7205
Bank (with Drive-Through)	112740	6.1000e-004	5.5300e-003	4.6400e-003	3.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004	0.0000	6.0163	6.0163	1.2000e-004	1.1000e-004	6.0520
Fast Food Restaurant with Drive Thru	1.3672e+006	7.3700e-003	0.0670	0.0563	4.0000e-004		5.0900e-003	5.0900e-003		5.0900e-003	5.0900e-003	0.0000	72.9590	72.9590	1.4000e-003	1.3400e-003	73.3926
High Turnover (Sit Down Restaurant)	820320	4.4200e-003	0.0402	0.0338	2.4000e-004		3.0600e-003	3.0600e-003		3.0600e-003	3.0600e-003	0.0000	43.7754	43.7754	8.4000e-004	8.0000e-004	44.0355
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	26351.4	1.4000e-004	1.2900e-003	1.0900e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	1.4062	1.4062	3.0000e-005	3.0000e-005	1.4146
Total		**0.0141**	**0.1284**	**0.1079**	**7.7000e-004**		**9.7600e-003**	**9.7600e-003**		**9.7600e-003**	**9.7600e-003**	**0.0000**	**139.7610**	**139.7610**	**2.6900e-003**	**2.5700e-003**	**140.5915**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Automobile Care Center	129960	7.0000e-004	6.3700e-003	5.3500e-003	4.0000e-005		4.8000e-004	4.8000e-004		4.8000e-004	4.8000e-004	0.0000	6.9352	6.9352	1.3000e-004	1.3000e-004	6.9764
Automobile Care Center	162450	8.8000e-004	7.9600e-003	6.6900e-003	5.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	8.6690	8.6690	1.7000e-004	1.6000e-004	8.7205
Bank (with Drive-Through)	112740	6.1000e-004	5.5300e-003	4.6400e-003	3.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004	0.0000	6.0163	6.0163	1.2000e-004	1.1000e-004	6.0520
Fast Food Restaurant with Drive Thru	1.3672e+006	7.3700e-003	0.0670	0.0563	4.0000e-004		5.0900e-003	5.0900e-003		5.0900e-003	5.0900e-003	0.0000	72.9590	72.9590	1.4000e-003	1.3400e-003	73.3926
High Turnover (Sit Down Restaurant)	820320	4.4200e-003	0.0402	0.0338	2.4000e-004		3.0600e-003	3.0600e-003		3.0600e-003	3.0600e-003	0.0000	43.7754	43.7754	8.4000e-004	8.0000e-004	44.0355
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	26351.4	1.4000e-004	1.2900e-003	1.0900e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	1.4062	1.4062	3.0000e-005	3.0000e-005	1.4146
Total		**0.0141**	**0.1284**	**0.1079**	**7.7000e-004**		**9.7600e-003**	**9.7600e-003**		**9.7600e-003**	**9.7600e-003**	**0.0000**	**139.7610**	**139.7610**	**2.6900e-003**	**2.5700e-003**	**140.5915**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	40600	10.5589	4.4000e-004	9.0000e-005	10.5974
Automobile Care Center	50750	13.1986	5.5000e-004	1.2000e-004	13.2468
Bank (with Drive-Through)	35220.5	9.1599	3.8000e-004	8.0000e-005	9.1933
Fast Food Restaurant with Drive Thru	237400	61.7410	2.5800e-003	5.4000e-004	61.9661
High Turnover (Sit Down Restaurant)	142440	37.0446	1.5500e-003	3.2000e-004	37.1797
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	28560	7.4277	3.1000e-004	6.0000e-005	7.4547
Regional Shopping Center	149918	38.9895	1.6300e-003	3.4000e-004	39.1316
Total		**178.1202**	**7.4400e-003**	**1.5500e-003**	**178.7694**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	40600	10.5589	4.4000e-004	9.0000e-005	10.5974
Automobile Care Center	50750	13.1986	5.5000e-004	1.2000e-004	13.2468
Bank (with Drive-Through)	35220.5	9.1599	3.8000e-004	8.0000e-005	9.1933
Fast Food Restaurant with Drive Thru	237400	61.7410	2.5800e-003	5.4000e-004	61.9661
High Turnover (Sit Down Restaurant)	142440	37.0446	1.5500e-003	3.2000e-004	37.1797
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	28560	7.4277	3.1000e-004	6.0000e-005	7.4547
Regional Shopping Center	149918	38.9895	1.6300e-003	3.4000e-004	39.1316
Total		**178.1202**	**7.4400e-003**	**1.5500e-003**	**178.7694**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1530	3.0000e-005	3.0800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.9700e-003	5.9700e-003	2.0000e-005	0.0000	6.3700e-003
Unmitigated	0.1530	3.0000e-005	3.0800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.9700e-003	5.9700e-003	2.0000e-005	0.0000	6.3700e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0187					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1340					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.9000e-004	3.0000e-005	3.0800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.9700e-003	5.9700e-003	2.0000e-005	0.0000	6.3700e-003
Total	**0.1530**	**3.0000e-005**	**3.0800e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**5.9700e-003**	**5.9700e-003**	**2.0000e-005**	**0.0000**	**6.3700e-003**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0187					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1340					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.9000e-004	3.0000e-005	3.0800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.9700e-003	5.9700e-003	2.0000e-005	0.0000	6.3700e-003
Total	**0.1530**	**3.0000e-005**	**3.0800e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**5.9700e-003**	**5.9700e-003**	**2.0000e-005**	**0.0000**	**6.3700e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	19.6430	0.1406	3.4600e-003	24.1898
Unmitigated	19.6430	0.1406	3.4600e-003	24.1898

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	0.84673 / 0.518964	4.6355	0.0278	6.9000e-004	5.5353
Bank (with Drive-Through)	0.137492 / 0.084269	0.7527	4.5100e-003	1.1000e-004	0.8988
Fast Food Restaurant with Drive Thru	1.51767 / 0.0968725	5.9008	0.0497	1.2100e-003	7.5049
High Turnover (Sit Down Restaurant)	0.910601 / 0.0581235	3.5405	0.0298	7.3000e-004	4.5029
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0.879241 / 0.53889	4.8135	0.0288	7.2000e-004	5.7478
Total		**19.6430**	**0.1406**	**3.4600e-003**	**24.1898**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	0.84673 / 0.518964	4.6355	0.0278	6.9000e-004	5.5353
Bank (with Drive-Through)	0.137492 / 0.084269	0.7527	4.5100e-003	1.1000e-004	0.8988
Fast Food Restaurant with Drive Thru	1.51767 / 0.0968725	5.9008	0.0497	1.2100e-003	7.5049
High Turnover (Sit Down Restaurant)	0.910601 / 0.0581235	3.5405	0.0298	7.3000e-004	4.5029
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0.879241 / 0.53889	4.8135	0.0288	7.2000e-004	5.7478
Total		**19.6430**	**0.1406**	**3.4600e-003**	**24.1898**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	14.5514	0.8600	0.0000	36.0505
Unmitigated	29.1028	1.7199	0.0000	72.1010

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	34.38	6.9788	0.4124	0.0000	17.2898
Bank (with Drive-Through)	3.24	0.6577	0.0389	0.0000	1.6294
Fast Food Restaurant with Drive Thru	57.59	11.6903	0.6909	0.0000	28.9621
High Turnover (Sit Down Restaurant)	35.7	7.2468	0.4283	0.0000	17.9536
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	12.46	2.5293	0.1495	0.0000	6.2662
Total		**29.1028**	**1.7199**	**0.0000**	**72.1010**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	17.19	3.4894	0.2062	0.0000	8.6449
Bank (with Drive-Through)	1.62	0.3289	0.0194	0.0000	0.8147
Fast Food Restaurant with Drive Thru	28.795	5.8451	0.3454	0.0000	14.4811
High Turnover (Sit Down Restaurant)	17.85	3.6234	0.2141	0.0000	8.9768
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	6.23	1.2646	0.0747	0.0000	3.1331
Total		**14.5514**	**0.8600**	**0.0000**	**36.0505**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Appendix B

AERMOD Input and HARP2 Output Files

*HARP - HRACalc v19044 4/23/2020 3:07:20 PM - Cancer Risk - Input File: C:\Users\swang\Documents\1. Projects\10773 Retail Development Advisors - Murrieta EIR\HRA\HARP2\CurciConstMit\hra\CurciMit0.67yr

REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_R	MMILK_RI	WATER_RI	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RISI	PIG_RISK	CHICKEN_F	EGG_RISK
1	ALL		481950	3715450	1.49E-09	0.67YrCanc	1.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2	ALL		482050	3715450	1.53E-09	0.67YrCanc	1.53E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3	ALL		482150	3715450	1.55E-09	0.67YrCanc	1.55E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4	ALL		482250	3715450	1.61E-09	0.67YrCanc	1.61E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5	ALL		482350	3715450	1.65E-09	0.67YrCanc	1.65E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6	ALL		482450	3715450	1.68E-09	0.67YrCanc	1.68E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7	ALL		482550	3715450	1.72E-09	0.67YrCanc	1.72E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8	ALL		482650	3715450	1.77E-09	0.67YrCanc	1.77E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9	ALL		482750	3715450	1.82E-09	0.67YrCanc	1.82E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
10	ALL		482850	3715450	1.87E-09	0.67YrCanc	1.87E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
11	ALL		482950	3715450	1.92E-09	0.67YrCanc	1.92E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
12	ALL		483050	3715450	1.97E-09	0.67YrCanc	1.97E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
13	ALL		483150	3715450	2.02E-09	0.67YrCanc	2.02E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
14	ALL		483250	3715450	2.06E-09	0.67YrCanc	2.06E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
15	ALL		483350	3715450	2.10E-09	0.67YrCanc	2.10E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
16	ALL		483450	3715450	2.13E-09	0.67YrCanc	2.13E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
17	ALL		483550	3715450	2.16E-09	0.67YrCanc	2.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
18	ALL		483650	3715450	2.18E-09	0.67YrCanc	2.18E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
19	ALL		483750	3715450	2.22E-09	0.67YrCanc	2.22E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
20	ALL		483850	3715450	2.25E-09	0.67YrCanc	2.25E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
21	ALL		483950	3715450	2.27E-09	0.67YrCanc	2.27E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
22	ALL		484050	3715450	2.28E-09	0.67YrCanc	2.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
23	ALL		484150	3715450	2.28E-09	0.67YrCanc	2.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
24	ALL		484250	3715450	2.28E-09	0.67YrCanc	2.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
25	ALL		484350	3715450	2.30E-09	0.67YrCanc	2.30E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
26	ALL		484450	3715450	2.31E-09	0.67YrCanc	2.31E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
27	ALL		481950	3715550	1.53E-09	0.67YrCanc	1.53E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
28	ALL		482050	3715550	1.58E-09	0.67YrCanc	1.58E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
29	ALL		482150	3715550	1.60E-09	0.67YrCanc	1.60E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
30	ALL		482250	3715550	1.66E-09	0.67YrCanc	1.66E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
31	ALL		482350	3715550	1.69E-09	0.67YrCanc	1.69E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
32	ALL		482550	3715550	1.78E-09	0.67YrCanc	1.78E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
33	ALL		482650	3715550	1.83E-09	0.67YrCanc	1.83E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
34	ALL		482750	3715550	1.88E-09	0.67YrCanc	1.88E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
35	ALL		482850	3715550	1.94E-09	0.67YrCanc	1.94E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
36	ALL		482950	3715550	2.00E-09	0.67YrCanc	2.00E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
37	ALL		483050	3715550	2.06E-09	0.67YrCanc	2.06E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
38	ALL		483150	3715550	2.11E-09	0.67YrCanc	2.11E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
39	ALL		483250	3715550	2.16E-09	0.67YrCanc	2.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
40	ALL		483350	3715550	2.20E-09	0.67YrCanc	2.20E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
41	ALL		483450	3715550	2.24E-09	0.67YrCanc	2.24E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
42	ALL		483550	3715550	2.28E-09	0.67YrCanc	2.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
43	ALL		483650	3715550	2.31E-09	0.67YrCanc	2.31E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
44	ALL		483750	3715550	2.33E-09	0.67YrCanc	2.33E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
45	ALL		483850	3715550	2.38E-09	0.67YrCanc	2.38E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
46	ALL		483950	3715550	2.40E-09	0.67YrCanc	2.40E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
47	ALL		484050	3715550	2.42E-09	0.67YrCanc	2.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
48	ALL		484250	3715550	2.42E-09	0.67YrCanc	2.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
49	ALL		484350	3715550	2.42E-09	0.67YrCanc	2.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
50	ALL		484450	3715550	2.42E-09	0.67YrCanc	2.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
51	ALL		484550	3715550	2.44E-09	0.67YrCanc	2.44E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
52	ALL		484950	3715550	2.59E-09	0.67YrCanc	2.59E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
53	ALL		485050	3715550	2.56E-09	0.67YrCanc	2.56E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
54	ALL		481950	3715650	1.58E-09	0.67YrCanc	1.58E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
55	ALL		482050	3715650	1.62E-09	0.67YrCanc	1.62E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
56	ALL		482150	3715650	1.67E-09	0.67YrCanc	1.67E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
57	ALL		482250	3715650	1.71E-09	0.67YrCanc	1.71E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
58	ALL		482350	3715650	1.74E-09	0.67YrCanc	1.74E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
59	ALL		482450	3715650	1.80E-09	0.67YrCanc	1.80E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
60	ALL		482650	3715650	1.91E-09	0.67YrCanc	1.91E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
61	ALL		482750	3715650	1.97E-09	0.67YrCanc	1.97E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
62	ALL		482850	3715650	2.02E-09	0.67YrCanc	2.02E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
63	ALL		482950	3715650	2.07E-09	0.67YrCanc	2.07E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
64	ALL		483050	3715650	2.14E-09	0.67YrCanc	2.14E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
65	ALL		483150	3715650	2.21E-09	0.67YrCanc	2.21E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
66	ALL		483250	3715650	2.28E-09	0.67YrCanc	2.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
67	ALL		483350	3715650	2.33E-09	0.67YrCanc	2.33E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
68	ALL		483450	3715650	2.36E-09	0.67YrCanc	2.36E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
69	ALL		483550	3715650	2.41E-09	0.67YrCanc	2.41E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
70	ALL		483650	3715650	2.43E-09	0.67YrCanc	2.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
71	ALL		483750	3715650	2.48E-09	0.67YrCanc	2.48E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
72	ALL		483850	3715650	2.49E-09	0.67YrCanc	2.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
73	ALL		483950	3715650	2.55E-09	0.67YrCanc	2.55E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		484050	3715650	2.54E-09	0.67YrCanc	2.54E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
75	ALL		484150	3715650	2.55E-09	0.67YrCanc	2.55E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
76	ALL		484350	3715650	2.58E-09	0.67YrCanc	2.58E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
77	ALL		484450	3715650	2.56E-09	0.67YrCanc	2.56E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
78	ALL		484550	3715650	2.57E-09	0.67YrCanc	2.57E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
79	ALL		484650	3715650	2.56E-09	0.67YrCanc	2.56E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
80	ALL		484750	3715650	2.57E-09	0.67YrCanc	2.57E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
81	ALL		484950	3715650	2.59E-09	0.67YrCanc	2.59E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
82	ALL		485050	3715650	2.56E-09	0.67YrCanc	2.56E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
83	ALL		481950	3715750	1.62E-09	0.67YrCanc	1.62E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
84	ALL		482050	3715750	1.67E-09	0.67YrCanc	1.67E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
85	ALL		482150	3715750	1.71E-09	0.67YrCanc	1.71E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
86	ALL		482250	3715750	1.75E-09	0.67YrCanc	1.75E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
87	ALL		482350	3715750	1.81E-09	0.67YrCanc	1.81E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
88	ALL		482450	3715750	1.87E-09	0.67YrCanc	1.87E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

89	ALL	482550	3715750	1.94E-09	0.67YrCanc	1.94E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
90	ALL	482750	3715750	2.04E-09	0.67YrCanc	2.04E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
91	ALL	482850	3715750	2.14E-09	0.67YrCanc	2.14E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
92	ALL	482950	3715750	2.18E-09	0.67YrCanc	2.18E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
93	ALL	483050	3715750	2.25E-09	0.67YrCanc	2.25E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
94	ALL	483150	3715750	2.33E-09	0.67YrCanc	2.33E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
95	ALL	483250	3715750	2.39E-09	0.67YrCanc	2.39E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
96	ALL	483350	3715750	2.46E-09	0.67YrCanc	2.46E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
97	ALL	483450	3715750	2.49E-09	0.67YrCanc	2.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
98	ALL	483550	3715750	2.55E-09	0.67YrCanc	2.55E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
99	ALL	483650	3715750	2.58E-09	0.67YrCanc	2.58E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL	483750	3715750	2.63E-09	0.67YrCanc	2.63E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
101	ALL	483850	3715750	2.66E-09	0.67YrCanc	2.66E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
102	ALL	483950	3715750	2.69E-09	0.67YrCanc	2.69E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
103	ALL	484050	3715750	2.72E-09	0.67YrCanc	2.72E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
104	ALL	484150	3715750	2.72E-09	0.67YrCanc	2.72E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
105	ALL	484250	3715750	2.71E-09	0.67YrCanc	2.71E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
106	ALL	484550	3715750	2.70E-09	0.67YrCanc	2.70E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
107	ALL	484650	3715750	2.69E-09	0.67YrCanc	2.69E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
108	ALL	484750	3715750	2.68E-09	0.67YrCanc	2.68E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
109	ALL	484850	3715750	2.66E-09	0.67YrCanc	2.66E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
110	ALL	484950	3715750	2.64E-09	0.67YrCanc	2.64E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
111	ALL	485050	3715750	2.61E-09	0.67YrCanc	2.61E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
112	ALL	481950	3715850	1.67E-09	0.67YrCanc	1.67E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
113	ALL	482050	3715850	1.72E-09	0.67YrCanc	1.72E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
114	ALL	482150	3715850	1.76E-09	0.67YrCanc	1.76E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
115	ALL	482250	3715850	1.83E-09	0.67YrCanc	1.83E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
116	ALL	482350	3715850	1.88E-09	0.67YrCanc	1.88E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
117	ALL	482450	3715850	1.95E-09	0.67YrCanc	1.95E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
118	ALL	482550	3715850	2.01E-09	0.67YrCanc	2.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
119	ALL	482650	3715850	2.08E-09	0.67YrCanc	2.08E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
120	ALL	482750	3715850	2.16E-09	0.67YrCanc	2.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
121	ALL	482850	3715850	2.23E-09	0.67YrCanc	2.23E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
122	ALL	482950	3715850	2.30E-09	0.67YrCanc	2.30E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
123	ALL	483050	3715850	2.36E-09	0.67YrCanc	2.36E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
124	ALL	483150	3715850	2.45E-09	0.67YrCanc	2.45E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
125	ALL	483350	3715850	2.60E-09	0.67YrCanc	2.60E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
126	ALL	483450	3715850	2.65E-09	0.67YrCanc	2.65E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
127	ALL	483550	3715850	2.71E-09	0.67YrCanc	2.71E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
128	ALL	483650	3715850	2.76E-09	0.67YrCanc	2.76E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
129	ALL	483750	3715850	2.82E-09	0.67YrCanc	2.82E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
130	ALL	483850	3715850	2.85E-09	0.67YrCanc	2.85E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
131	ALL	483950	3715850	2.87E-09	0.67YrCanc	2.87E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
132	ALL	484050	3715850	2.91E-09	0.67YrCanc	2.91E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
133	ALL	484150	3715850	2.91E-09	0.67YrCanc	2.91E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
134	ALL	484250	3715850	2.90E-09	0.67YrCanc	2.90E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
135	ALL	484550	3715850	2.89E-09	0.67YrCanc	2.89E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
136	ALL	484650	3715850	2.86E-09	0.67YrCanc	2.86E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
137	ALL	484750	3715850	2.83E-09	0.67YrCanc	2.83E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
138	ALL	484850	3715850	2.80E-09	0.67YrCanc	2.80E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
139	ALL	485150	3715850	2.70E-09	0.67YrCanc	2.70E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
140	ALL	485250	3715850	2.71E-09	0.67YrCanc	2.71E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
141	ALL	481950	3715950	1.72E-09	0.67YrCanc	1.72E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
142	ALL	482050	3715950	1.77E-09	0.67YrCanc	1.77E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
143	ALL	482150	3715950	1.83E-09	0.67YrCanc	1.83E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
144	ALL	482250	3715950	1.90E-09	0.67YrCanc	1.90E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
145	ALL	482350	3715950	1.96E-09	0.67YrCanc	1.96E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
146	ALL	482450	3715950	2.02E-09	0.67YrCanc	2.02E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
147	ALL	482550	3715950	2.10E-09	0.67YrCanc	2.10E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
148	ALL	482650	3715950	2.17E-09	0.67YrCanc	2.17E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
149	ALL	482750	3715950	2.24E-09	0.67YrCanc	2.24E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
150	ALL	482850	3715950	2.33E-09	0.67YrCanc	2.33E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
151	ALL	482950	3715950	2.42E-09	0.67YrCanc	2.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
152	ALL	483050	3715950	2.51E-09	0.67YrCanc	2.51E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
153	ALL	483350	3715950	2.75E-09	0.67YrCanc	2.75E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
154	ALL	483450	3715950	2.83E-09	0.67YrCanc	2.83E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
155	ALL	483550	3715950	2.89E-09	0.67YrCanc	2.89E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
156	ALL	483650	3715950	2.94E-09	0.67YrCanc	2.94E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
157	ALL	483750	3715950	3.00E-09	0.67YrCanc	3.00E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
158	ALL	483850	3715950	3.07E-09	0.67YrCanc	3.07E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
159	ALL	483950	3715950	3.07E-09	0.67YrCanc	3.07E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
160	ALL	484050	3715950	3.12E-09	0.67YrCanc	3.12E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
161	ALL	484150	3715950	3.14E-09	0.67YrCanc	3.14E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
162	ALL	484250	3715950	3.12E-09	0.67YrCanc	3.12E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
163	ALL	484850	3715950	2.97E-09	0.67YrCanc	2.97E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
164	ALL	485150	3715950	2.86E-09	0.67YrCanc	2.86E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
165	ALL	485250	3715950	2.88E-09	0.67YrCanc	2.88E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
166	ALL	481950	3716050	1.77E-09	0.67YrCanc	1.77E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
167	ALL	482050	3716050	1.83E-09	0.67YrCanc	1.83E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
168	ALL	482150	3716050	1.89E-09	0.67YrCanc	1.89E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
169	ALL	482250	3716050	1.96E-09	0.67YrCanc	1.96E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
170	ALL	482350	3716050	2.03E-09	0.67YrCanc	2.03E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
171	ALL	482450	3716050	2.10E-09	0.67YrCanc	2.10E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
172	ALL	482550	3716050	2.19E-09	0.67YrCanc	2.19E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
173	ALL	482650	3716050	2.27E-09	0.67YrCanc	2.27E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
174	ALL	482750	3716050	2.34E-09	0.67YrCanc	2.34E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
175	ALL	482850	3716050	2.45E-09	0.67YrCanc	2.45E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
176	ALL	482950	3716050	2.54E-09	0.67YrCanc	2.54E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
177	ALL	483050	3716050	2.64E-09	0.67YrCanc	2.64E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
178	ALL	483150	3716050	2.73E-09	0.67YrCanc	2.73E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

179	ALL	483350	3716050	2.93E-09	0.67YrCanc	2.93E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
180	ALL	483450	3716050	3.02E-09	0.67YrCanc	3.02E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
181	ALL	483550	3716050	3.09E-09	0.67YrCanc	3.09E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
182	ALL	483650	3716050	3.15E-09	0.67YrCanc	3.15E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
183	ALL	483750	3716050	3.24E-09	0.67YrCanc	3.24E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
184	ALL	483850	3716050	3.30E-09	0.67YrCanc	3.30E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
185	ALL	483950	3716050	3.33E-09	0.67YrCanc	3.33E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
186	ALL	484050	3716050	3.35E-09	0.67YrCanc	3.35E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
187	ALL	484150	3716050	3.39E-09	0.67YrCanc	3.39E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
188	ALL	484250	3716050	3.37E-09	0.67YrCanc	3.37E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
189	ALL	484450	3716050	3.32E-09	0.67YrCanc	3.32E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
190	ALL	484750	3716050	3.22E-09	0.67YrCanc	3.22E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
191	ALL	484850	3716050	3.17E-09	0.67YrCanc	3.17E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
192	ALL	485050	3716050	3.06E-09	0.67YrCanc	3.06E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
193	ALL	485150	3716050	3.02E-09	0.67YrCanc	3.02E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
194	ALL	485250	3716050	3.02E-09	0.67YrCanc	3.02E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
195	ALL	485350	3716050	2.91E-09	0.67YrCanc	2.91E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
196	ALL	485450	3716050	2.88E-09	0.67YrCanc	2.88E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
197	ALL	481950	3716150	1.82E-09	0.67YrCanc	1.82E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
198	ALL	482050	3716150	1.89E-09	0.67YrCanc	1.89E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
199	ALL	482150	3716150	1.96E-09	0.67YrCanc	1.96E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
200	ALL	482250	3716150	2.03E-09	0.67YrCanc	2.03E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
201	ALL	482350	3716150	2.11E-09	0.67YrCanc	2.11E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
202	ALL	482450	3716150	2.19E-09	0.67YrCanc	2.19E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
203	ALL	482550	3716150	2.28E-09	0.67YrCanc	2.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
204	ALL	482650	3716150	2.37E-09	0.67YrCanc	2.37E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
205	ALL	482750	3716150	2.46E-09	0.67YrCanc	2.46E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
206	ALL	482850	3716150	2.56E-09	0.67YrCanc	2.56E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
207	ALL	482950	3716150	2.68E-09	0.67YrCanc	2.68E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
208	ALL	483050	3716150	2.79E-09	0.67YrCanc	2.79E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
209	ALL	483150	3716150	2.89E-09	0.67YrCanc	2.89E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
210	ALL	483450	3716150	3.23E-09	0.67YrCanc	3.23E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
211	ALL	483550	3716150	3.33E-09	0.67YrCanc	3.33E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
212	ALL	483650	3716150	3.40E-09	0.67YrCanc	3.40E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
213	ALL	483750	3716150	3.50E-09	0.67YrCanc	3.50E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
214	ALL	483850	3716150	3.57E-09	0.67YrCanc	3.57E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
215	ALL	483950	3716150	3.62E-09	0.67YrCanc	3.62E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
216	ALL	484150	3716150	3.67E-09	0.67YrCanc	3.67E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
217	ALL	484250	3716150	3.66E-09	0.67YrCanc	3.66E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
218	ALL	484350	3716150	3.65E-09	0.67YrCanc	3.65E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
219	ALL	484450	3716150	3.60E-09	0.67YrCanc	3.60E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
220	ALL	484850	3716150	3.39E-09	0.67YrCanc	3.39E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
221	ALL	484950	3716150	3.32E-09	0.67YrCanc	3.32E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
222	ALL	485150	3716150	3.19E-09	0.67YrCanc	3.19E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
223	ALL	485250	3716150	3.12E-09	0.67YrCanc	3.12E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
224	ALL	485350	3716150	3.05E-09	0.67YrCanc	3.05E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
225	ALL	485450	3716150	2.99E-09	0.67YrCanc	2.99E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
226	ALL	481950	3716250	1.88E-09	0.67YrCanc	1.88E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
227	ALL	482050	3716250	1.96E-09	0.67YrCanc	1.96E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
228	ALL	482150	3716250	2.03E-09	0.67YrCanc	2.03E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
229	ALL	482250	3716250	2.11E-09	0.67YrCanc	2.11E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
230	ALL	482350	3716250	2.19E-09	0.67YrCanc	2.19E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
231	ALL	482450	3716250	2.28E-09	0.67YrCanc	2.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
232	ALL	482550	3716250	2.38E-09	0.67YrCanc	2.38E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
233	ALL	482650	3716250	2.48E-09	0.67YrCanc	2.48E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
234	ALL	482750	3716250	2.59E-09	0.67YrCanc	2.59E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
235	ALL	482850	3716250	2.71E-09	0.67YrCanc	2.71E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
236	ALL	482950	3716250	2.83E-09	0.67YrCanc	2.83E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
237	ALL	483050	3716250	2.95E-09	0.67YrCanc	2.95E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
238	ALL	483150	3716250	3.08E-09	0.67YrCanc	3.08E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
239	ALL	483450	3716250	3.47E-09	0.67YrCanc	3.47E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
240	ALL	483550	3716250	3.59E-09	0.67YrCanc	3.59E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
241	ALL	483650	3716250	3.69E-09	0.67YrCanc	3.69E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
242	ALL	483750	3716250	3.80E-09	0.67YrCanc	3.80E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
243	ALL	483850	3716250	3.88E-09	0.67YrCanc	3.88E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
244	ALL	483950	3716250	3.93E-09	0.67YrCanc	3.93E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
245	ALL	484150	3716250	4.05E-09	0.67YrCanc	4.05E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
246	ALL	484850	3716250	3.67E-09	0.67YrCanc	3.67E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
247	ALL	484950	3716250	3.59E-09	0.67YrCanc	3.59E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
248	ALL	485050	3716250	3.47E-09	0.67YrCanc	3.47E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
249	ALL	485150	3716250	3.38E-09	0.67YrCanc	3.38E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
250	ALL	485250	3716250	3.30E-09	0.67YrCanc	3.30E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
251	ALL	485350	3716250	3.22E-09	0.67YrCanc	3.22E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
252	ALL	481950	3716350	1.94E-09	0.67YrCanc	1.94E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
253	ALL	482050	3716350	2.03E-09	0.67YrCanc	2.03E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
254	ALL	482150	3716350	2.11E-09	0.67YrCanc	2.11E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
255	ALL	482250	3716350	2.21E-09	0.67YrCanc	2.21E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
256	ALL	482350	3716350	2.29E-09	0.67YrCanc	2.29E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
257	ALL	482450	3716350	2.38E-09	0.67YrCanc	2.38E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
258	ALL	482550	3716350	2.49E-09	0.67YrCanc	2.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
259	ALL	482650	3716350	2.60E-09	0.67YrCanc	2.60E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
260	ALL	482750	3716350	2.72E-09	0.67YrCanc	2.72E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
261	ALL	482850	3716350	2.85E-09	0.67YrCanc	2.85E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
262	ALL	482950	3716350	2.99E-09	0.67YrCanc	2.99E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
263	ALL	483050	3716350	3.14E-09	0.67YrCanc	3.14E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
264	ALL	483150	3716350	3.29E-09	0.67YrCanc	3.29E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
265	ALL	483450	3716350	3.75E-09	0.67YrCanc	3.75E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
266	ALL	483550	3716350	3.90E-09	0.67YrCanc	3.90E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
267	ALL	483650	3716350	4.02E-09	0.67YrCanc	4.02E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
268	ALL	483750	3716350	4.15E-09	0.67YrCanc	4.15E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

269	ALL	483850	3716350	4.25E-09	0.67YrCanc	4.25E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
270	ALL	483950	3716350	4.32E-09	0.67YrCanc	4.32E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
271	ALL	484850	3716350	3.95E-09	0.67YrCanc	3.95E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
272	ALL	484950	3716350	3.90E-09	0.67YrCanc	3.90E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
273	ALL	481950	3716450	2.01E-09	0.67YrCanc	2.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
274	ALL	482550	3716450	2.61E-09	0.67YrCanc	2.61E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
275	ALL	482650	3716450	2.74E-09	0.67YrCanc	2.74E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
276	ALL	482750	3716450	2.87E-09	0.67YrCanc	2.87E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
277	ALL	482850	3716450	3.00E-09	0.67YrCanc	3.00E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
278	ALL	482950	3716450	3.18E-09	0.67YrCanc	3.18E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
279	ALL	483050	3716450	3.36E-09	0.67YrCanc	3.36E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
280	ALL	483150	3716450	3.53E-09	0.67YrCanc	3.53E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
281	ALL	483450	3716450	4.08E-09	0.67YrCanc	4.08E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
282	ALL	483550	3716450	4.26E-09	0.67YrCanc	4.26E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
283	ALL	483650	3716450	4.42E-09	0.67YrCanc	4.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
284	ALL	483750	3716450	4.56E-09	0.67YrCanc	4.56E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
285	ALL	483850	3716450	4.70E-09	0.67YrCanc	4.70E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
286	ALL	483950	3716450	4.79E-09	0.67YrCanc	4.79E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
287	ALL	484050	3716450	4.85E-09	0.67YrCanc	4.85E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
288	ALL	485150	3716450	3.91E-09	0.67YrCanc	3.91E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
289	ALL	482650	3716550	2.90E-09	0.67YrCanc	2.90E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
290	ALL	482750	3716550	3.04E-09	0.67YrCanc	3.04E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
291	ALL	482850	3716550	3.18E-09	0.67YrCanc	3.18E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
292	ALL	482950	3716550	3.40E-09	0.67YrCanc	3.40E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
293	ALL	483450	3716550	4.46E-09	0.67YrCanc	4.46E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
294	ALL	483550	3716550	4.70E-09	0.67YrCanc	4.70E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
295	ALL	483650	3716550	4.89E-09	0.67YrCanc	4.89E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
296	ALL	483750	3716550	5.09E-09	0.67YrCanc	5.09E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
297	ALL	483850	3716550	5.25E-09	0.67YrCanc	5.25E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
298	ALL	483950	3716550	5.38E-09	0.67YrCanc	5.38E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
299	ALL	484050	3716550	5.45E-09	0.67YrCanc	5.45E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
300	ALL	484950	3716550	4.47E-09	0.67YrCanc	4.47E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
301	ALL	485050	3716550	4.38E-09	0.67YrCanc	4.38E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
302	ALL	485150	3716550	4.26E-09	0.67YrCanc	4.26E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
303	ALL	482850	3716650	3.38E-09	0.67YrCanc	3.38E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
304	ALL	482950	3716650	3.61E-09	0.67YrCanc	3.61E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
305	ALL	483450	3716650	4.87E-09	0.67YrCanc	4.87E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
306	ALL	483550	3716650	5.19E-09	0.67YrCanc	5.19E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
307	ALL	483650	3716650	5.48E-09	0.67YrCanc	5.48E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
308	ALL	483750	3716650	5.76E-09	0.67YrCanc	5.76E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
309	ALL	483850	3716650	5.94E-09	0.67YrCanc	5.94E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
310	ALL	483950	3716650	6.11E-09	0.67YrCanc	6.11E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
311	ALL	484050	3716650	6.21E-09	0.67YrCanc	6.21E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
312	ALL	485250	3716650	4.21E-09	0.67YrCanc	4.21E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
313	ALL	481950	3716750	2.15E-09	0.67YrCanc	2.15E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
314	ALL	482650	3716750	3.23E-09	0.67YrCanc	3.23E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
315	ALL	482750	3716750	3.43E-09	0.67YrCanc	3.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
316	ALL	482850	3716750	3.59E-09	0.67YrCanc	3.59E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
317	ALL	482950	3716750	3.87E-09	0.67YrCanc	3.87E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
318	ALL	483050	3716750	4.13E-09	0.67YrCanc	4.13E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
319	ALL	483150	3716750	4.47E-09	0.67YrCanc	4.47E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
320	ALL	483450	3716750	5.41E-09	0.67YrCanc	5.41E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
321	ALL	483550	3716750	5.81E-09	0.67YrCanc	5.81E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
322	ALL	483650	3716750	6.29E-09	0.67YrCanc	6.29E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
323	ALL	483750	3716750	6.63E-09	0.67YrCanc	6.63E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
324	ALL	483850	3716750	6.82E-09	0.67YrCanc	6.82E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
325	ALL	483950	3716750	7.04E-09	0.67YrCanc	7.04E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
326	ALL	484050	3716750	7.16E-09	0.67YrCanc	7.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
327	ALL	485150	3716750	4.71E-09	0.67YrCanc	4.71E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
328	ALL	485250	3716750	4.42E-09	0.67YrCanc	4.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
329	ALL	485350	3716750	4.16E-09	0.67YrCanc	4.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
330	ALL	485450	3716750	3.90E-09	0.67YrCanc	3.90E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
331	ALL	485550	3716750	3.69E-09	0.67YrCanc	3.69E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
332	ALL	485650	3716750	3.41E-09	0.67YrCanc	3.41E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
333	ALL	481950	3716850	2.20E-09	0.67YrCanc	2.20E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
334	ALL	482050	3716850	2.31E-09	0.67YrCanc	2.31E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
335	ALL	482150	3716850	2.43E-09	0.67YrCanc	2.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
336	ALL	482650	3716850	3.40E-09	0.67YrCanc	3.40E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
337	ALL	482750	3716850	3.61E-09	0.67YrCanc	3.61E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
338	ALL	482850	3716850	3.84E-09	0.67YrCanc	3.84E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
339	ALL	482950	3716850	4.16E-09	0.67YrCanc	4.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
340	ALL	483050	3716850	4.53E-09	0.67YrCanc	4.53E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
341	ALL	483150	3716850	4.85E-09	0.67YrCanc	4.85E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
342	ALL	483250	3716850	5.17E-09	0.67YrCanc	5.17E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
343	ALL	484050	3716850	8.57E-09	0.67YrCanc	8.57E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
344	ALL	485550	3716850	3.77E-09	0.67YrCanc	3.77E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
345	ALL	485650	3716850	3.48E-09	0.67YrCanc	3.48E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
346	ALL	481950	3716950	2.25E-09	0.67YrCanc	2.25E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
347	ALL	482050	3716950	2.36E-09	0.67YrCanc	2.36E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
348	ALL	482150	3716950	2.50E-09	0.67YrCanc	2.50E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
349	ALL	482250	3716950	2.65E-09	0.67YrCanc	2.65E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
350	ALL	482350	3716950	2.82E-09	0.67YrCanc	2.82E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
351	ALL	482450	3716950	3.01E-09	0.67YrCanc	3.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
352	ALL	483150	3716950	5.25E-09	0.67YrCanc	5.25E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
353	ALL	483250	3716950	5.69E-09	0.67YrCanc	5.69E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
354	ALL	485550	3716950	3.82E-09	0.67YrCanc	3.82E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
355	ALL	485650	3716950	3.54E-09	0.67YrCanc	3.54E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
356	ALL	481950	3717050	2.29E-09	0.67YrCanc	2.29E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
357	ALL	482050	3717050	2.42E-09	0.67YrCanc	2.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
358	ALL	482150	3717050	2.56E-09	0.67YrCanc	2.56E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

359	ALL	482250	3717050	2.73E-09	0.67YrCanc	2.73E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
360	ALL	482350	3717050	2.90E-09	0.67YrCanc	2.90E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
361	ALL	482450	3717050	3.10E-09	0.67YrCanc	3.10E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
362	ALL	482550	3717050	3.33E-09	0.67YrCanc	3.33E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
363	ALL	482650	3717050	3.59E-09	0.67YrCanc	3.59E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
364	ALL	482850	3717050	4.25E-09	0.67YrCanc	4.25E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
365	ALL	482950	3717050	4.73E-09	0.67YrCanc	4.73E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
366	ALL	483250	3717050	6.37E-09	0.67YrCanc	6.37E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
367	ALL	485350	3717050	4.61E-09	0.67YrCanc	4.61E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
368	ALL	485450	3717050	4.25E-09	0.67YrCanc	4.25E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
369	ALL	485550	3717050	3.89E-09	0.67YrCanc	3.89E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
370	ALL	485650	3717050	3.58E-09	0.67YrCanc	3.58E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
371	ALL	486250	3717050	2.23E-09	0.67YrCanc	2.23E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
372	ALL	481950	3717150	2.32E-09	0.67YrCanc	2.32E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
373	ALL	482050	3717150	2.47E-09	0.67YrCanc	2.47E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
374	ALL	482150	3717150	2.63E-09	0.67YrCanc	2.63E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
375	ALL	482250	3717150	2.79E-09	0.67YrCanc	2.79E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
376	ALL	482350	3717150	2.98E-09	0.67YrCanc	2.98E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
377	ALL	482450	3717150	3.20E-09	0.67YrCanc	3.20E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
378	ALL	482550	3717150	3.43E-09	0.67YrCanc	3.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
379	ALL	482650	3717150	3.73E-09	0.67YrCanc	3.73E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
380	ALL	482750	3717150	4.06E-09	0.67YrCanc	4.06E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
381	ALL	482850	3717150	4.43E-09	0.67YrCanc	4.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
382	ALL	482950	3717150	4.90E-09	0.67YrCanc	4.90E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
383	ALL	483050	3717150	5.53E-09	0.67YrCanc	5.53E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
384	ALL	485350	3717150	4.74E-09	0.67YrCanc	4.74E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
385	ALL	485450	3717150	4.31E-09	0.67YrCanc	4.31E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
386	ALL	485550	3717150	3.92E-09	0.67YrCanc	3.92E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
387	ALL	485650	3717150	3.60E-09	0.67YrCanc	3.60E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
388	ALL	481950	3717250	2.37E-09	0.67YrCanc	2.37E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
389	ALL	482050	3717250	2.51E-09	0.67YrCanc	2.51E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
390	ALL	482150	3717250	2.67E-09	0.67YrCanc	2.67E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
391	ALL	482250	3717250	2.87E-09	0.67YrCanc	2.87E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
392	ALL	482350	3717250	3.08E-09	0.67YrCanc	3.08E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
393	ALL	482450	3717250	3.28E-09	0.67YrCanc	3.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
394	ALL	482550	3717250	3.54E-09	0.67YrCanc	3.54E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
395	ALL	482650	3717250	3.85E-09	0.67YrCanc	3.85E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
396	ALL	482750	3717250	4.23E-09	0.67YrCanc	4.23E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
397	ALL	482850	3717250	4.65E-09	0.67YrCanc	4.65E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
398	ALL	482950	3717250	5.13E-09	0.67YrCanc	5.13E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
399	ALL	483050	3717250	5.78E-09	0.67YrCanc	5.78E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
400	ALL	483150	3717250	6.60E-09	0.67YrCanc	6.60E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
401	ALL	483250	3717250	7.58E-09	0.67YrCanc	7.58E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
402	ALL	483350	3717250	8.79E-09	0.67YrCanc	8.79E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
403	ALL	483450	3717250	1.02E-08	0.67YrCanc	1.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
404	ALL	483850	3717250	1.93E-08	0.67YrCanc	1.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
405	ALL	483950	3717250	2.16E-08	0.67YrCanc	2.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
406	ALL	486150	3717250	2.62E-09	0.67YrCanc	2.62E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
407	ALL	486250	3717250	2.49E-09	0.67YrCanc	2.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
408	ALL	481950	3717350	2.41E-09	0.67YrCanc	2.41E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
409	ALL	482050	3717350	2.55E-09	0.67YrCanc	2.55E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
410	ALL	482150	3717350	2.70E-09	0.67YrCanc	2.70E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
411	ALL	482250	3717350	2.90E-09	0.67YrCanc	2.90E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
412	ALL	482350	3717350	3.12E-09	0.67YrCanc	3.12E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
413	ALL	482450	3717350	3.37E-09	0.67YrCanc	3.37E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
414	ALL	482550	3717350	3.63E-09	0.67YrCanc	3.63E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
415	ALL	482650	3717350	3.97E-09	0.67YrCanc	3.97E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
416	ALL	482750	3717350	4.38E-09	0.67YrCanc	4.38E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
417	ALL	482850	3717350	4.84E-09	0.67YrCanc	4.84E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
418	ALL	482950	3717350	5.37E-09	0.67YrCanc	5.37E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
419	ALL	483050	3717350	6.08E-09	0.67YrCanc	6.08E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
420	ALL	483150	3717350	6.99E-09	0.67YrCanc	6.99E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
421	ALL	483250	3717350	8.14E-09	0.67YrCanc	8.14E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
422	ALL	483350	3717350	9.63E-09	0.67YrCanc	9.63E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
423	ALL	483450	3717350	1.15E-08	0.67YrCanc	1.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
424	ALL	483850	3717350	2.74E-08	0.67YrCanc	2.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
425	ALL	483950	3717350	3.19E-08	0.67YrCanc	3.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
426	ALL	484050	3717350	3.40E-08	0.67YrCanc	3.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
427	ALL	484650	3717350	1.40E-08	0.67YrCanc	1.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
428	ALL	484750	3717350	1.16E-08	0.67YrCanc	1.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
429	ALL	486050	3717350	2.75E-09	0.67YrCanc	2.75E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
430	ALL	486150	3717350	2.59E-09	0.67YrCanc	2.59E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
431	ALL	486250	3717350	2.46E-09	0.67YrCanc	2.46E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
432	ALL	481950	3717450	2.45E-09	0.67YrCanc	2.45E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
433	ALL	482050	3717450	2.59E-09	0.67YrCanc	2.59E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
434	ALL	482150	3717450	2.75E-09	0.67YrCanc	2.75E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
435	ALL	482250	3717450	2.96E-09	0.67YrCanc	2.96E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
436	ALL	482350	3717450	3.17E-09	0.67YrCanc	3.17E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
437	ALL	482450	3717450	3.42E-09	0.67YrCanc	3.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
438	ALL	482750	3717450	4.53E-09	0.67YrCanc	4.53E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
439	ALL	482850	3717450	5.01E-09	0.67YrCanc	5.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
440	ALL	482950	3717450	5.59E-09	0.67YrCanc	5.59E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
441	ALL	483050	3717450	6.36E-09	0.67YrCanc	6.36E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
442	ALL	483150	3717450	7.37E-09	0.67YrCanc	7.37E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
443	ALL	483250	3717450	8.72E-09	0.67YrCanc	8.72E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
444	ALL	483350	3717450	1.05E-08	0.67YrCanc	1.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
445	ALL	483450	3717450	1.31E-08	0.67YrCanc	1.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
446	ALL	483550	3717450	1.67E-08	0.67YrCanc	1.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
447	ALL	483850	3717450	4.11E-08	0.67YrCanc	4.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
448	ALL	483950	3717450	5.37E-08	0.67YrCanc	5.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

449	ALL	484050	3717450	5.80E-08	0.67YrCanc	5.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
450	ALL	484550	3717450	1.96E-08	0.67YrCanc	1.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
451	ALL	484650	3717450	1.55E-08	0.67YrCanc	1.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
452	ALL	484750	3717450	1.24E-08	0.67YrCanc	1.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
453	ALL	481950	3717550	2.49E-09	0.67YrCanc	2.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
454	ALL	482050	3717550	2.65E-09	0.67YrCanc	2.65E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
455	ALL	482150	3717550	2.82E-09	0.67YrCanc	2.82E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
456	ALL	482250	3717550	3.00E-09	0.67YrCanc	3.00E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
457	ALL	482350	3717550	3.23E-09	0.67YrCanc	3.23E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
458	ALL	482450	3717550	3.49E-09	0.67YrCanc	3.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
459	ALL	482750	3717550	4.62E-09	0.67YrCanc	4.62E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
460	ALL	482850	3717550	5.13E-09	0.67YrCanc	5.13E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
461	ALL	482950	3717550	5.76E-09	0.67YrCanc	5.76E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
462	ALL	483050	3717550	6.60E-09	0.67YrCanc	6.60E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
463	ALL	483250	3717550	9.25E-09	0.67YrCanc	9.25E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
464	ALL	483350	3717550	1.14E-08	0.67YrCanc	1.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
465	ALL	483450	3717550	1.47E-08	0.67YrCanc	1.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
466	ALL	483550	3717550	1.95E-08	0.67YrCanc	1.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
467	ALL	483950	3717550	1.24E-07	0.67YrCanc	1.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
468	ALL	484050	3717550	1.35E-07	0.67YrCanc	1.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
469	ALL	485850	3717550	3.14E-09	0.67YrCanc	3.14E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
470	ALL	485950	3717550	2.94E-09	0.67YrCanc	2.94E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
471	ALL	481950	3717650	2.43E-09	0.67YrCanc	2.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
472	ALL	482050	3717650	2.66E-09	0.67YrCanc	2.66E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
473	ALL	482150	3717650	2.85E-09	0.67YrCanc	2.85E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
474	ALL	482250	3717650	3.05E-09	0.67YrCanc	3.05E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
475	ALL	482350	3717650	3.28E-09	0.67YrCanc	3.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
476	ALL	482450	3717650	3.54E-09	0.67YrCanc	3.54E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
477	ALL	482550	3717650	3.87E-09	0.67YrCanc	3.87E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
478	ALL	482650	3717650	4.23E-09	0.67YrCanc	4.23E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
479	ALL	482750	3717650	4.69E-09	0.67YrCanc	4.69E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
480	ALL	482850	3717650	5.22E-09	0.67YrCanc	5.22E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
481	ALL	482950	3717650	5.90E-09	0.67YrCanc	5.90E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
482	ALL	483350	3717650	1.21E-08	0.67YrCanc	1.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
483	ALL	484550	3717650	2.36E-08	0.67YrCanc	2.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
484	ALL	484650	3717650	1.73E-08	0.67YrCanc	1.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
485	ALL	484750	3717650	1.34E-08	0.67YrCanc	1.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
486	ALL	484850	3717650	1.07E-08	0.67YrCanc	1.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
487	ALL	485150	3717650	6.45E-09	0.67YrCanc	6.45E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
488	ALL	485450	3717650	4.44E-09	0.67YrCanc	4.44E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
489	ALL	485550	3717650	4.04E-09	0.67YrCanc	4.04E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
490	ALL	482250	3717750	3.05E-09	0.67YrCanc	3.05E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
491	ALL	482350	3717750	3.19E-09	0.67YrCanc	3.19E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
492	ALL	482450	3717750	3.43E-09	0.67YrCanc	3.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
493	ALL	482550	3717750	3.77E-09	0.67YrCanc	3.77E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
494	ALL	482650	3717750	4.19E-09	0.67YrCanc	4.19E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
495	ALL	482750	3717750	4.74E-09	0.67YrCanc	4.74E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
496	ALL	482850	3717750	5.28E-09	0.67YrCanc	5.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
497	ALL	482950	3717750	6.00E-09	0.67YrCanc	6.00E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
498	ALL	484550	3717750	2.48E-08	0.67YrCanc	2.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
499	ALL	484650	3717750	1.79E-08	0.67YrCanc	1.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
500	ALL	484750	3717750	1.37E-08	0.67YrCanc	1.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
501	ALL	484850	3717750	1.09E-08	0.67YrCanc	1.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
502	ALL	485150	3717750	6.48E-09	0.67YrCanc	6.48E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
503	ALL	485450	3717750	4.45E-09	0.67YrCanc	4.45E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
504	ALL	485550	3717750	4.05E-09	0.67YrCanc	4.05E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
505	ALL	485650	3717750	3.72E-09	0.67YrCanc	3.72E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
506	ALL	485750	3717750	3.41E-09	0.67YrCanc	3.41E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
507	ALL	485850	3717750	3.16E-09	0.67YrCanc	3.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
508	ALL	485950	3717750	2.94E-09	0.67YrCanc	2.94E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
509	ALL	486050	3717750	2.76E-09	0.67YrCanc	2.76E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
510	ALL	482250	3717850	2.94E-09	0.67YrCanc	2.94E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
511	ALL	482650	3717850	4.06E-09	0.67YrCanc	4.06E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
512	ALL	482750	3717850	4.63E-09	0.67YrCanc	4.63E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
513	ALL	482850	3717850	5.31E-09	0.67YrCanc	5.31E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
514	ALL	482950	3717850	6.01E-09	0.67YrCanc	6.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
515	ALL	483350	3717850	1.25E-08	0.67YrCanc	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
516	ALL	483450	3717850	1.66E-08	0.67YrCanc	1.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
517	ALL	484550	3717850	2.61E-08	0.67YrCanc	2.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
518	ALL	484650	3717850	1.86E-08	0.67YrCanc	1.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
519	ALL	484750	3717850	1.41E-08	0.67YrCanc	1.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
520	ALL	484850	3717850	1.12E-08	0.67YrCanc	1.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
521	ALL	484950	3717850	9.11E-09	0.67YrCanc	9.11E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
522	ALL	485150	3717850	6.55E-09	0.67YrCanc	6.55E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
523	ALL	485250	3717850	5.70E-09	0.67YrCanc	5.70E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
524	ALL	485450	3717850	4.53E-09	0.67YrCanc	4.53E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
525	ALL	485550	3717850	4.11E-09	0.67YrCanc	4.11E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
526	ALL	485650	3717850	3.75E-09	0.67YrCanc	3.75E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
527	ALL	485750	3717850	3.44E-09	0.67YrCanc	3.44E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
528	ALL	485850	3717850	3.19E-09	0.67YrCanc	3.19E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
529	ALL	485950	3717850	2.98E-09	0.67YrCanc	2.98E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
530	ALL	486050	3717850	2.78E-09	0.67YrCanc	2.78E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
531	ALL	481950	3717950	2.09E-09	0.67YrCanc	2.09E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
532	ALL	482250	3717950	2.83E-09	0.67YrCanc	2.83E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
533	ALL	482350	3717950	2.86E-09	0.67YrCanc	2.86E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
534	ALL	482750	3717950	4.45E-09	0.67YrCanc	4.45E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
535	ALL	483350	3717950	1.23E-08	0.67YrCanc	1.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
536	ALL	483450	3717950	1.61E-08	0.67YrCanc	1.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
537	ALL	483550	3717950	2.23E-08	0.67YrCanc	2.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
538	ALL	484550	3717950	2.73E-08	0.67YrCanc	2.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

539	ALL	484650	3717950	1.95E-08	0.67YrCanc	1.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
540	ALL	484750	3717950	1.47E-08	0.67YrCanc	1.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
541	ALL	484850	3717950	1.15E-08	0.67YrCanc	1.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
542	ALL	484950	3717950	9.38E-09	0.67YrCanc	9.38E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
543	ALL	485350	3717950	5.13E-09	0.67YrCanc	5.13E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
544	ALL	485450	3717950	4.57E-09	0.67YrCanc	4.57E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
545	ALL	485550	3717950	4.16E-09	0.67YrCanc	4.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
546	ALL	485650	3717950	3.78E-09	0.67YrCanc	3.78E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
547	ALL	485750	3717950	3.46E-09	0.67YrCanc	3.46E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
548	ALL	485850	3717950	3.22E-09	0.67YrCanc	3.22E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
549	ALL	485950	3717950	3.01E-09	0.67YrCanc	3.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
550	ALL	486050	3717950	2.81E-09	0.67YrCanc	2.81E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
551	ALL	481950	3718050	2.10E-09	0.67YrCanc	2.10E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
552	ALL	482050	3718050	2.18E-09	0.67YrCanc	2.18E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
553	ALL	482750	3718050	4.37E-09	0.67YrCanc	4.37E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
554	ALL	482850	3718050	5.01E-09	0.67YrCanc	5.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
555	ALL	482950	3718050	5.59E-09	0.67YrCanc	5.59E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
556	ALL	483050	3718050	6.51E-09	0.67YrCanc	6.51E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
557	ALL	483150	3718050	7.60E-09	0.67YrCanc	7.60E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
558	ALL	483250	3718050	9.11E-09	0.67YrCanc	9.11E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
559	ALL	483350	3718050	1.15E-08	0.67YrCanc	1.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
560	ALL	483450	3718050	1.49E-08	0.67YrCanc	1.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
561	ALL	483550	3718050	2.05E-08	0.67YrCanc	2.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
562	ALL	483650	3718050	2.99E-08	0.67YrCanc	2.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
563	ALL	484550	3718050	2.79E-08	0.67YrCanc	2.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
564	ALL	484650	3718050	2.01E-08	0.67YrCanc	2.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
565	ALL	485450	3718050	4.67E-09	0.67YrCanc	4.67E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
566	ALL	485550	3718050	4.20E-09	0.67YrCanc	4.20E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
567	ALL	485650	3718050	3.81E-09	0.67YrCanc	3.81E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
568	ALL	485750	3718050	3.49E-09	0.67YrCanc	3.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
569	ALL	485850	3718050	3.23E-09	0.67YrCanc	3.23E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
570	ALL	485950	3718050	3.01E-09	0.67YrCanc	3.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
571	ALL	486050	3718050	2.82E-09	0.67YrCanc	2.82E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
572	ALL	481950	3718150	2.16E-09	0.67YrCanc	2.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
573	ALL	482050	3718150	2.21E-09	0.67YrCanc	2.21E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
574	ALL	482150	3718150	2.30E-09	0.67YrCanc	2.30E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
575	ALL	482250	3718150	2.48E-09	0.67YrCanc	2.48E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
576	ALL	482350	3718150	2.71E-09	0.67YrCanc	2.71E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
577	ALL	482650	3718150	3.77E-09	0.67YrCanc	3.77E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
578	ALL	482750	3718150	4.26E-09	0.67YrCanc	4.26E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
579	ALL	482850	3718150	4.52E-09	0.67YrCanc	4.52E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
580	ALL	482950	3718150	5.08E-09	0.67YrCanc	5.08E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
581	ALL	483050	3718150	5.86E-09	0.67YrCanc	5.86E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
582	ALL	483150	3718150	7.02E-09	0.67YrCanc	7.02E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
583	ALL	483350	3718150	1.06E-08	0.67YrCanc	1.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
584	ALL	483450	3718150	1.36E-08	0.67YrCanc	1.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
585	ALL	483550	3718150	1.80E-08	0.67YrCanc	1.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
586	ALL	483650	3718150	2.48E-08	0.67YrCanc	2.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
587	ALL	484550	3718150	2.67E-08	0.67YrCanc	2.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
588	ALL	484650	3718150	2.00E-08	0.67YrCanc	2.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
589	ALL	485250	3718150	6.05E-09	0.67YrCanc	6.05E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
590	ALL	485550	3718150	4.25E-09	0.67YrCanc	4.25E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
591	ALL	485650	3718150	3.86E-09	0.67YrCanc	3.86E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
592	ALL	485750	3718150	3.53E-09	0.67YrCanc	3.53E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
593	ALL	481950	3718250	2.19E-09	0.67YrCanc	2.19E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
594	ALL	482050	3718250	2.25E-09	0.67YrCanc	2.25E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
595	ALL	482150	3718250	2.31E-09	0.67YrCanc	2.31E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
596	ALL	482250	3718250	2.42E-09	0.67YrCanc	2.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
597	ALL	482350	3718250	2.68E-09	0.67YrCanc	2.68E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
598	ALL	482450	3718250	2.98E-09	0.67YrCanc	2.98E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
599	ALL	482550	3718250	3.27E-09	0.67YrCanc	3.27E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
600	ALL	482650	3718250	3.67E-09	0.67YrCanc	3.67E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
601	ALL	482750	3718250	4.05E-09	0.67YrCanc	4.05E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
602	ALL	482850	3718250	4.01E-09	0.67YrCanc	4.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
603	ALL	482950	3718250	4.39E-09	0.67YrCanc	4.39E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
604	ALL	483250	3718250	7.62E-09	0.67YrCanc	7.62E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
605	ALL	484550	3718250	2.36E-08	0.67YrCanc	2.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
606	ALL	484650	3718250	1.89E-08	0.67YrCanc	1.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
607	ALL	484750	3718250	1.51E-08	0.67YrCanc	1.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
608	ALL	484850	3718250	1.23E-08	0.67YrCanc	1.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
609	ALL	485150	3718250	7.16E-09	0.67YrCanc	7.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
610	ALL	485250	3718250	6.19E-09	0.67YrCanc	6.19E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
611	ALL	485650	3718250	3.93E-09	0.67YrCanc	3.93E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
612	ALL	481950	3718350	2.09E-09	0.67YrCanc	2.09E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
613	ALL	482050	3718350	2.21E-09	0.67YrCanc	2.21E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
614	ALL	482150	3718350	2.28E-09	0.67YrCanc	2.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
615	ALL	482250	3718350	2.36E-09	0.67YrCanc	2.36E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
616	ALL	482350	3718350	2.60E-09	0.67YrCanc	2.60E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
617	ALL	482450	3718350	2.91E-09	0.67YrCanc	2.91E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
618	ALL	482550	3718350	3.18E-09	0.67YrCanc	3.18E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
619	ALL	482650	3718350	3.50E-09	0.67YrCanc	3.50E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
620	ALL	482750	3718350	3.86E-09	0.67YrCanc	3.86E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
621	ALL	483150	3718350	5.49E-09	0.67YrCanc	5.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
622	ALL	483450	3718350	1.11E-08	0.67YrCanc	1.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
623	ALL	485250	3718350	6.28E-09	0.67YrCanc	6.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
624	ALL	485350	3718350	5.52E-09	0.67YrCanc	5.52E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
625	ALL	485550	3718350	4.38E-09	0.67YrCanc	4.38E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
626	ALL	485650	3718350	4.01E-09	0.67YrCanc	4.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
627	ALL	486150	3718350	2.68E-09	0.67YrCanc	2.68E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
628	ALL	486250	3718350	2.52E-09	0.67YrCanc	2.52E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

629	ALL	481950	3718450	2.02E-09	0.67YrCanc	2.02E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
630	ALL	482050	3718450	2.15E-09	0.67YrCanc	2.15E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
631	ALL	482150	3718450	2.22E-09	0.67YrCanc	2.22E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
632	ALL	482250	3718450	2.31E-09	0.67YrCanc	2.31E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
633	ALL	482350	3718450	2.51E-09	0.67YrCanc	2.51E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
634	ALL	482450	3718450	2.79E-09	0.67YrCanc	2.79E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
635	ALL	482550	3718450	3.08E-09	0.67YrCanc	3.08E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
636	ALL	482650	3718450	3.37E-09	0.67YrCanc	3.37E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
637	ALL	482750	3718450	3.71E-09	0.67YrCanc	3.71E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
638	ALL	482850	3718450	3.93E-09	0.67YrCanc	3.93E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
639	ALL	483350	3718450	8.14E-09	0.67YrCanc	8.14E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
640	ALL	484450	3718450	1.71E-08	0.67YrCanc	1.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
641	ALL	485150	3718450	7.23E-09	0.67YrCanc	7.23E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
642	ALL	485250	3718450	6.31E-09	0.67YrCanc	6.31E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
643	ALL	485350	3718450	5.59E-09	0.67YrCanc	5.59E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
644	ALL	485750	3718450	3.68E-09	0.67YrCanc	3.68E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
645	ALL	485850	3718450	3.36E-09	0.67YrCanc	3.36E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
646	ALL	485950	3718450	3.10E-09	0.67YrCanc	3.10E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
647	ALL	486050	3718450	2.90E-09	0.67YrCanc	2.90E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
648	ALL	481950	3718550	1.95E-09	0.67YrCanc	1.95E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
649	ALL	482050	3718550	2.07E-09	0.67YrCanc	2.07E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
650	ALL	482150	3718550	2.20E-09	0.67YrCanc	2.20E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
651	ALL	482250	3718550	2.32E-09	0.67YrCanc	2.32E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
652	ALL	482350	3718550	2.47E-09	0.67YrCanc	2.47E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
653	ALL	482450	3718550	2.73E-09	0.67YrCanc	2.73E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
654	ALL	482550	3718550	2.97E-09	0.67YrCanc	2.97E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
655	ALL	482650	3718550	3.22E-09	0.67YrCanc	3.22E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
656	ALL	482750	3718550	3.63E-09	0.67YrCanc	3.63E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
657	ALL	482850	3718550	3.93E-09	0.67YrCanc	3.93E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
658	ALL	482950	3718550	4.24E-09	0.67YrCanc	4.24E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
659	ALL	483550	3718550	9.51E-09	0.67YrCanc	9.51E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
660	ALL	484650	3718550	1.21E-08	0.67YrCanc	1.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
661	ALL	484750	3718550	1.11E-08	0.67YrCanc	1.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
662	ALL	484850	3718550	1.01E-08	0.67YrCanc	1.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
663	ALL	485850	3718550	3.41E-09	0.67YrCanc	3.41E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
664	ALL	485950	3718550	3.16E-09	0.67YrCanc	3.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
665	ALL	482050	3718650	1.99E-09	0.67YrCanc	1.99E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
666	ALL	482150	3718650	2.14E-09	0.67YrCanc	2.14E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
667	ALL	482250	3718650	2.30E-09	0.67YrCanc	2.30E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
668	ALL	482350	3718650	2.49E-09	0.67YrCanc	2.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
669	ALL	482450	3718650	2.66E-09	0.67YrCanc	2.66E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
670	ALL	482550	3718650	2.89E-09	0.67YrCanc	2.89E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
671	ALL	482650	3718650	3.18E-09	0.67YrCanc	3.18E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
672	ALL	482750	3718650	3.51E-09	0.67YrCanc	3.51E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
673	ALL	482850	3718650	3.92E-09	0.67YrCanc	3.92E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
674	ALL	482950	3718650	4.36E-09	0.67YrCanc	4.36E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
675	ALL	485150	3718650	6.74E-09	0.67YrCanc	6.74E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
676	ALL	485450	3718650	4.98E-09	0.67YrCanc	4.98E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
677	ALL	485550	3718650	4.50E-09	0.67YrCanc	4.50E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
678	ALL	485650	3718650	4.08E-09	0.67YrCanc	4.08E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
679	ALL	485850	3718650	3.48E-09	0.67YrCanc	3.48E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
680	ALL	485950	3718650	3.18E-09	0.67YrCanc	3.18E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
681	ALL	486050	3718650	2.98E-09	0.67YrCanc	2.98E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
682	ALL	482050	3718750	1.96E-09	0.67YrCanc	1.96E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
683	ALL	482150	3718750	2.10E-09	0.67YrCanc	2.10E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
684	ALL	482250	3718750	2.23E-09	0.67YrCanc	2.23E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
685	ALL	482350	3718750	2.42E-09	0.67YrCanc	2.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
686	ALL	482450	3718750	2.63E-09	0.67YrCanc	2.63E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
687	ALL	482550	3718750	2.86E-09	0.67YrCanc	2.86E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
688	ALL	482650	3718750	3.12E-09	0.67YrCanc	3.12E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
689	ALL	482750	3718750	3.47E-09	0.67YrCanc	3.47E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
690	ALL	482850	3718750	3.86E-09	0.67YrCanc	3.86E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
691	ALL	482950	3718750	4.25E-09	0.67YrCanc	4.25E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
692	ALL	483050	3718750	4.72E-09	0.67YrCanc	4.72E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
693	ALL	484950	3718750	7.42E-09	0.67YrCanc	7.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
694	ALL	485050	3718750	6.92E-09	0.67YrCanc	6.92E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
695	ALL	485150	3718750	6.40E-09	0.67YrCanc	6.40E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
696	ALL	485850	3718750	3.51E-09	0.67YrCanc	3.51E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
697	ALL	485950	3718750	3.23E-09	0.67YrCanc	3.23E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
698	ALL	486050	3718750	3.00E-09	0.67YrCanc	3.00E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
699	ALL	482350	3718850	2.39E-09	0.67YrCanc	2.39E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
700	ALL	482450	3718850	2.59E-09	0.67YrCanc	2.59E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
701	ALL	482550	3718850	2.82E-09	0.67YrCanc	2.82E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
702	ALL	482650	3718850	3.08E-09	0.67YrCanc	3.08E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
703	ALL	482750	3718850	3.41E-09	0.67YrCanc	3.41E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
704	ALL	482850	3718850	3.77E-09	0.67YrCanc	3.77E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
705	ALL	482950	3718850	4.11E-09	0.67YrCanc	4.11E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
706	ALL	483050	3718850	4.51E-09	0.67YrCanc	4.51E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
707	ALL	483150	3718850	4.78E-09	0.67YrCanc	4.78E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
708	ALL	484150	3718850	7.02E-09	0.67YrCanc	7.02E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
709	ALL	484250	3718850	7.28E-09	0.67YrCanc	7.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
710	ALL	485350	3718850	5.13E-09	0.67YrCanc	5.13E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
711	ALL	485450	3718850	4.73E-09	0.67YrCanc	4.73E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
712	ALL	485750	3718850	3.76E-09	0.67YrCanc	3.76E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
713	ALL	485850	3718850	3.49E-09	0.67YrCanc	3.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
714	ALL	485950	3718850	3.26E-09	0.67YrCanc	3.26E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
715	ALL	486050	3718850	3.01E-09	0.67YrCanc	3.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
716	ALL	482450	3718950	2.56E-09	0.67YrCanc	2.56E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
717	ALL	482550	3718950	2.79E-09	0.67YrCanc	2.79E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718	ALL	482650	3718950	3.03E-09	0.67YrCanc	3.03E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

719	ALL	482750	3718950	3.34E-09	0.67YrCanc	3.34E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720	ALL	482850	3718950	3.64E-09	0.67YrCanc	3.64E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721	ALL	482950	3718950	3.94E-09	0.67YrCanc	3.94E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
722	ALL	483050	3718950	4.24E-09	0.67YrCanc	4.24E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
723	ALL	483150	3718950	4.54E-09	0.67YrCanc	4.54E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
724	ALL	483250	3718950	4.71E-09	0.67YrCanc	4.71E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
725	ALL	485750	3718950	3.76E-09	0.67YrCanc	3.76E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
726	ALL	485850	3718950	3.49E-09	0.67YrCanc	3.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
727	ALL	485950	3718950	3.24E-09	0.67YrCanc	3.24E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
728	ALL	486050	3718950	3.04E-09	0.67YrCanc	3.04E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
729	ALL	482250	3719050	2.16E-09	0.67YrCanc	2.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
730	ALL	482350	3719050	2.34E-09	0.67YrCanc	2.34E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
731	ALL	482450	3719050	2.54E-09	0.67YrCanc	2.54E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
732	ALL	482550	3719050	2.75E-09	0.67YrCanc	2.75E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
733	ALL	482650	3719050	2.99E-09	0.67YrCanc	2.99E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
734	ALL	482850	3719050	3.49E-09	0.67YrCanc	3.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
735	ALL	482950	3719050	3.73E-09	0.67YrCanc	3.73E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
736	ALL	483050	3719050	3.98E-09	0.67YrCanc	3.98E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
737	ALL	483150	3719050	4.20E-09	0.67YrCanc	4.20E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
738	ALL	483250	3719050	4.36E-09	0.67YrCanc	4.36E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
739	ALL	483350	3719050	4.44E-09	0.67YrCanc	4.44E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
740	ALL	483450	3719050	4.50E-09	0.67YrCanc	4.50E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
741	ALL	483550	3719050	4.52E-09	0.67YrCanc	4.52E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
742	ALL	485250	3719050	4.78E-09	0.67YrCanc	4.78E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
743	ALL	485450	3719050	4.32E-09	0.67YrCanc	4.32E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
744	ALL	485550	3719050	4.08E-09	0.67YrCanc	4.08E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
745	ALL	485650	3719050	3.87E-09	0.67YrCanc	3.87E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
746	ALL	485750	3719050	3.66E-09	0.67YrCanc	3.66E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
747	ALL	482350	3719150	2.33E-09	0.67YrCanc	2.33E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
748	ALL	482650	3719150	2.92E-09	0.67YrCanc	2.92E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
749	ALL	482850	3719150	3.35E-09	0.67YrCanc	3.35E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
750	ALL	483050	3719150	3.73E-09	0.67YrCanc	3.73E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
751	ALL	483150	3719150	3.88E-09	0.67YrCanc	3.88E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
752	ALL	483250	3719150	4.01E-09	0.67YrCanc	4.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
753	ALL	483350	3719150	4.08E-09	0.67YrCanc	4.08E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
754	ALL	483450	3719150	4.12E-09	0.67YrCanc	4.12E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
755	ALL	483550	3719150	4.13E-09	0.67YrCanc	4.13E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
756	ALL	485250	3719150	4.46E-09	0.67YrCanc	4.46E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
757	ALL	485550	3719150	3.91E-09	0.67YrCanc	3.91E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
758	ALL	485650	3719150	3.73E-09	0.67YrCanc	3.73E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
759	ALL	485950	3719150	3.17E-09	0.67YrCanc	3.17E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
760	ALL	484550	3719250	4.54E-09	0.67YrCanc	4.54E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
761	ALL	484750	3719250	4.47E-09	0.67YrCanc	4.47E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
762	ALL	484850	3719250	4.43E-09	0.67YrCanc	4.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
763	ALL	484750	3719350	4.08E-09	0.67YrCanc	4.08E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
764	ALL	484850	3719350	4.04E-09	0.67YrCanc	4.04E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
765	ALL	484950	3719350	3.99E-09	0.67YrCanc	3.99E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
766	ALL	485050	3719350	3.94E-09	0.67YrCanc	3.94E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
767	ALL	485150	3719350	3.88E-09	0.67YrCanc	3.88E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
768	ALL	484250	3719450	3.72E-09	0.67YrCanc	3.72E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
769	ALL	484350	3719450	3.79E-09	0.67YrCanc	3.79E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
770	ALL	484450	3719450	3.81E-09	0.67YrCanc	3.81E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
771	ALL	484550	3719450	3.80E-09	0.67YrCanc	3.80E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
772	ALL	484650	3719450	3.77E-09	0.67YrCanc	3.77E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
773	ALL	484750	3719450	3.74E-09	0.67YrCanc	3.74E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
774	ALL	484850	3719450	3.71E-09	0.67YrCanc	3.71E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
775	ALL	484950	3719450	3.68E-09	0.67YrCanc	3.68E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
776	ALL	485050	3719450	3.65E-09	0.67YrCanc	3.65E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
777	ALL	485150	3719450	3.59E-09	0.67YrCanc	3.59E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
778	ALL	485250	3719450	3.54E-09	0.67YrCanc	3.54E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
779	ALL	485350	3719450	3.48E-09	0.67YrCanc	3.48E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
780	ALL	485450	3719450	3.40E-09	0.67YrCanc	3.40E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
781	ALL	485550	3719450	3.33E-09	0.67YrCanc	3.33E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
782	ALL	484250	3719550	3.39E-09	0.67YrCanc	3.39E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
783	ALL	484350	3719550	3.45E-09	0.67YrCanc	3.45E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
784	ALL	484450	3719550	3.51E-09	0.67YrCanc	3.51E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
785	ALL	484550	3719550	3.52E-09	0.67YrCanc	3.52E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
786	ALL	484650	3719550	3.50E-09	0.67YrCanc	3.50E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
787	ALL	484750	3719550	3.46E-09	0.67YrCanc	3.46E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
788	ALL	484850	3719550	3.44E-09	0.67YrCanc	3.44E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
789	ALL	484950	3719550	3.42E-09	0.67YrCanc	3.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
790	ALL	485050	3719550	3.37E-09	0.67YrCanc	3.37E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
791	ALL	485150	3719550	3.34E-09	0.67YrCanc	3.34E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
792	ALL	485250	3719550	3.29E-09	0.67YrCanc	3.29E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
793	ALL	485350	3719550	3.27E-09	0.67YrCanc	3.27E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
794	ALL	485450	3719550	3.21E-09	0.67YrCanc	3.21E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
795	ALL	485550	3719550	3.14E-09	0.67YrCanc	3.14E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
796	ALL	484450	3719850	2.84E-09	0.67YrCanc	2.84E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
797	ALL	484550	3719850	2.86E-09	0.67YrCanc	2.86E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
798	ALL	484650	3719850	2.85E-09	0.67YrCanc	2.85E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
799	ALL	484350	3719950	2.64E-09	0.67YrCanc	2.64E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
800	ALL	484450	3719950	2.64E-09	0.67YrCanc	2.64E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
801	ALL	484550	3719950	2.64E-09	0.67YrCanc	2.64E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
802	ALL	484650	3719950	2.68E-09	0.67YrCanc	2.68E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
803	ALL	483837.5	3717213	1.72E-08	0.67YrCanc	1.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
804	ALL	483862.5	3717213	1.77E-08	0.67YrCanc	1.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
805	ALL	483887.5	3717213	1.82E-08	0.67YrCanc	1.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
806	ALL	483412.5	3717238	9.49E-09	0.67YrCanc	9.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
807	ALL	483812.5	3717238	1.78E-08	0.67YrCanc	1.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
808	ALL	483837.5	3717238	1.84E-08	0.67YrCanc	1.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

809	ALL	483862.5	3717238	1.89E-08	0.67YrCanc	1.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
810	ALL	483887.5	3717238	1.96E-08	0.67YrCanc	1.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
811	ALL	483912.5	3717238	2.01E-08	0.67YrCanc	2.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
812	ALL	483937.5	3717238	2.06E-08	0.67YrCanc	2.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
813	ALL	483412.5	3717263	9.75E-09	0.67YrCanc	9.75E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
814	ALL	483437.5	3717263	1.01E-08	0.67YrCanc	1.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
815	ALL	483462.5	3717263	1.05E-08	0.67YrCanc	1.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
816	ALL	483812.5	3717263	1.90E-08	0.67YrCanc	1.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
817	ALL	483837.5	3717263	1.97E-08	0.67YrCanc	1.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
818	ALL	483862.5	3717263	2.04E-08	0.67YrCanc	2.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
819	ALL	483887.5	3717263	2.11E-08	0.67YrCanc	2.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
820	ALL	483912.5	3717263	2.17E-08	0.67YrCanc	2.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
821	ALL	483937.5	3717263	2.23E-08	0.67YrCanc	2.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
822	ALL	483962.5	3717263	2.29E-08	0.67YrCanc	2.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
823	ALL	483987.5	3717263	2.33E-08	0.67YrCanc	2.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
824	ALL	483412.5	3717288	1.00E-08	0.67YrCanc	1.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
825	ALL	483437.5	3717288	1.04E-08	0.67YrCanc	1.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
826	ALL	483462.5	3717288	1.09E-08	0.67YrCanc	1.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
827	ALL	483487.5	3717288	1.13E-08	0.67YrCanc	1.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
828	ALL	483812.5	3717288	2.04E-08	0.67YrCanc	2.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
829	ALL	483837.5	3717288	2.12E-08	0.67YrCanc	2.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
830	ALL	483862.5	3717288	2.21E-08	0.67YrCanc	2.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
831	ALL	483887.5	3717288	2.29E-08	0.67YrCanc	2.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
832	ALL	483912.5	3717288	2.37E-08	0.67YrCanc	2.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
833	ALL	483937.5	3717288	2.44E-08	0.67YrCanc	2.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
834	ALL	483962.5	3717288	2.50E-08	0.67YrCanc	2.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
835	ALL	483987.5	3717288	2.55E-08	0.67YrCanc	2.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
836	ALL	484012.5	3717288	2.59E-08	0.67YrCanc	2.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
837	ALL	483412.5	3717313	1.03E-08	0.67YrCanc	1.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
838	ALL	483437.5	3717313	1.08E-08	0.67YrCanc	1.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
839	ALL	483462.5	3717313	1.12E-08	0.67YrCanc	1.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
840	ALL	483487.5	3717313	1.17E-08	0.67YrCanc	1.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
841	ALL	483512.5	3717313	1.23E-08	0.67YrCanc	1.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
842	ALL	483787.5	3717313	2.12E-08	0.67YrCanc	2.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
843	ALL	483812.5	3717313	2.22E-08	0.67YrCanc	2.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
844	ALL	483837.5	3717313	2.32E-08	0.67YrCanc	2.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
845	ALL	483862.5	3717313	2.42E-08	0.67YrCanc	2.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
846	ALL	483887.5	3717313	2.52E-08	0.67YrCanc	2.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
847	ALL	483912.5	3717313	2.61E-08	0.67YrCanc	2.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
848	ALL	483937.5	3717313	2.69E-08	0.67YrCanc	2.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
849	ALL	483962.5	3717313	2.76E-08	0.67YrCanc	2.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
850	ALL	483987.5	3717313	2.82E-08	0.67YrCanc	2.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
851	ALL	484012.5	3717313	2.86E-08	0.67YrCanc	2.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
852	ALL	484037.5	3717313	2.89E-08	0.67YrCanc	2.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
853	ALL	484562.5	3717313	1.56E-08	0.67YrCanc	1.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
854	ALL	484587.5	3717313	1.49E-08	0.67YrCanc	1.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
855	ALL	484612.5	3717313	1.43E-08	0.67YrCanc	1.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
856	ALL	484637.5	3717313	1.36E-08	0.67YrCanc	1.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
857	ALL	484662.5	3717313	1.30E-08	0.67YrCanc	1.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
858	ALL	484687.5	3717313	1.24E-08	0.67YrCanc	1.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
859	ALL	484712.5	3717313	1.19E-08	0.67YrCanc	1.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
860	ALL	484737.5	3717313	1.14E-08	0.67YrCanc	1.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
861	ALL	484762.5	3717313	1.09E-08	0.67YrCanc	1.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
862	ALL	483412.5	3717338	1.06E-08	0.67YrCanc	1.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
863	ALL	483437.5	3717338	1.11E-08	0.67YrCanc	1.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
864	ALL	483462.5	3717338	1.16E-08	0.67YrCanc	1.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
865	ALL	483487.5	3717338	1.22E-08	0.67YrCanc	1.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
866	ALL	483512.5	3717338	1.28E-08	0.67YrCanc	1.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
867	ALL	483537.5	3717338	1.34E-08	0.67YrCanc	1.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
868	ALL	483787.5	3717338	2.30E-08	0.67YrCanc	2.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
869	ALL	483812.5	3717338	2.42E-08	0.67YrCanc	2.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
870	ALL	483837.5	3717338	2.54E-08	0.67YrCanc	2.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
871	ALL	483862.5	3717338	2.67E-08	0.67YrCanc	2.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
872	ALL	483887.5	3717338	2.78E-08	0.67YrCanc	2.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
873	ALL	483912.5	3717338	2.89E-08	0.67YrCanc	2.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
874	ALL	483937.5	3717338	2.98E-08	0.67YrCanc	2.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
875	ALL	483962.5	3717338	3.06E-08	0.67YrCanc	3.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
876	ALL	483987.5	3717338	3.13E-08	0.67YrCanc	3.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
877	ALL	484012.5	3717338	3.18E-08	0.67YrCanc	3.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
878	ALL	484037.5	3717338	3.21E-08	0.67YrCanc	3.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
879	ALL	484562.5	3717338	1.63E-08	0.67YrCanc	1.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
880	ALL	484587.5	3717338	1.55E-08	0.67YrCanc	1.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
881	ALL	484612.5	3717338	1.48E-08	0.67YrCanc	1.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
882	ALL	484637.5	3717338	1.41E-08	0.67YrCanc	1.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
883	ALL	484662.5	3717338	1.34E-08	0.67YrCanc	1.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
884	ALL	484687.5	3717338	1.28E-08	0.67YrCanc	1.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
885	ALL	484712.5	3717338	1.22E-08	0.67YrCanc	1.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
886	ALL	484737.5	3717338	1.17E-08	0.67YrCanc	1.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
887	ALL	484762.5	3717338	1.12E-08	0.67YrCanc	1.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
888	ALL	483412.5	3717363	1.09E-08	0.67YrCanc	1.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
889	ALL	483437.5	3717363	1.14E-08	0.67YrCanc	1.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
890	ALL	483462.5	3717363	1.20E-08	0.67YrCanc	1.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
891	ALL	483487.5	3717363	1.26E-08	0.67YrCanc	1.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
892	ALL	483512.5	3717363	1.33E-08	0.67YrCanc	1.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
893	ALL	483537.5	3717363	1.40E-08	0.67YrCanc	1.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
894	ALL	483787.5	3717363	2.49E-08	0.67YrCanc	2.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
895	ALL	483812.5	3717363	2.65E-08	0.67YrCanc	2.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
896	ALL	483837.5	3717363	2.80E-08	0.67YrCanc	2.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
897	ALL	483862.5	3717363	2.95E-08	0.67YrCanc	2.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
898	ALL	483887.5	3717363	3.10E-08	0.67YrCanc	3.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

899	ALL	483912.5	3717363	3.23E-08	0.67YrCanc	3.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
900	ALL	483937.5	3717363	3.33E-08	0.67YrCanc	3.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
901	ALL	483962.5	3717363	3.42E-08	0.67YrCanc	3.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
902	ALL	483987.5	3717363	3.51E-08	0.67YrCanc	3.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL	484012.5	3717363	3.57E-08	0.67YrCanc	3.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
904	ALL	484037.5	3717363	3.60E-08	0.67YrCanc	3.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
905	ALL	484562.5	3717363	1.69E-08	0.67YrCanc	1.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
906	ALL	484587.5	3717363	1.61E-08	0.67YrCanc	1.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
907	ALL	484612.5	3717363	1.53E-08	0.67YrCanc	1.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
908	ALL	484637.5	3717363	1.45E-08	0.67YrCanc	1.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
909	ALL	484662.5	3717363	1.38E-08	0.67YrCanc	1.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
910	ALL	484687.5	3717363	1.31E-08	0.67YrCanc	1.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
911	ALL	484712.5	3717363	1.25E-08	0.67YrCanc	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
912	ALL	484737.5	3717363	1.20E-08	0.67YrCanc	1.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
913	ALL	484762.5	3717363	1.14E-08	0.67YrCanc	1.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
914	ALL	484787.5	3717363	1.09E-08	0.67YrCanc	1.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
915	ALL	483412.5	3717388	1.12E-08	0.67YrCanc	1.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
916	ALL	483437.5	3717388	1.18E-08	0.67YrCanc	1.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
917	ALL	483462.5	3717388	1.24E-08	0.67YrCanc	1.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
918	ALL	483487.5	3717388	1.31E-08	0.67YrCanc	1.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
919	ALL	483512.5	3717388	1.38E-08	0.67YrCanc	1.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
920	ALL	483537.5	3717388	1.46E-08	0.67YrCanc	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
921	ALL	483562.5	3717388	1.55E-08	0.67YrCanc	1.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
922	ALL	483787.5	3717388	2.71E-08	0.67YrCanc	2.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
923	ALL	483812.5	3717388	2.89E-08	0.67YrCanc	2.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
924	ALL	483837.5	3717388	3.08E-08	0.67YrCanc	3.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
925	ALL	483862.5	3717388	3.27E-08	0.67YrCanc	3.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
926	ALL	483887.5	3717388	3.46E-08	0.67YrCanc	3.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
927	ALL	483912.5	3717388	3.62E-08	0.67YrCanc	3.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
928	ALL	483937.5	3717388	3.75E-08	0.67YrCanc	3.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
929	ALL	483962.5	3717388	3.87E-08	0.67YrCanc	3.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
930	ALL	483987.5	3717388	3.96E-08	0.67YrCanc	3.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
931	ALL	484012.5	3717388	4.03E-08	0.67YrCanc	4.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
932	ALL	484037.5	3717388	4.07E-08	0.67YrCanc	4.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
933	ALL	484062.5	3717388	4.07E-08	0.67YrCanc	4.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
934	ALL	484562.5	3717388	1.75E-08	0.67YrCanc	1.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
935	ALL	484587.5	3717388	1.66E-08	0.67YrCanc	1.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
936	ALL	484612.5	3717388	1.58E-08	0.67YrCanc	1.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
937	ALL	484637.5	3717388	1.49E-08	0.67YrCanc	1.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
938	ALL	484662.5	3717388	1.42E-08	0.67YrCanc	1.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
939	ALL	484687.5	3717388	1.35E-08	0.67YrCanc	1.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
940	ALL	484712.5	3717388	1.28E-08	0.67YrCanc	1.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
941	ALL	484737.5	3717388	1.22E-08	0.67YrCanc	1.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
942	ALL	484762.5	3717388	1.16E-08	0.67YrCanc	1.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
943	ALL	484787.5	3717388	1.11E-08	0.67YrCanc	1.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
944	ALL	483412.5	3717413	1.15E-08	0.67YrCanc	1.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
945	ALL	483437.5	3717413	1.21E-08	0.67YrCanc	1.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
946	ALL	483462.5	3717413	1.28E-08	0.67YrCanc	1.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
947	ALL	483487.5	3717413	1.35E-08	0.67YrCanc	1.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
948	ALL	483512.5	3717413	1.43E-08	0.67YrCanc	1.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
949	ALL	483537.5	3717413	1.52E-08	0.67YrCanc	1.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
950	ALL	483562.5	3717413	1.62E-08	0.67YrCanc	1.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
951	ALL	483787.5	3717413	2.95E-08	0.67YrCanc	2.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
952	ALL	483812.5	3717413	3.16E-08	0.67YrCanc	3.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
953	ALL	483837.5	3717413	3.39E-08	0.67YrCanc	3.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
954	ALL	483862.5	3717413	3.63E-08	0.67YrCanc	3.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
955	ALL	483887.5	3717413	3.87E-08	0.67YrCanc	3.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
956	ALL	483912.5	3717413	4.07E-08	0.67YrCanc	4.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
957	ALL	483937.5	3717413	4.25E-08	0.67YrCanc	4.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
958	ALL	483962.5	3717413	4.40E-08	0.67YrCanc	4.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
959	ALL	483987.5	3717413	4.53E-08	0.67YrCanc	4.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
960	ALL	484012.5	3717413	4.61E-08	0.67YrCanc	4.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
961	ALL	484037.5	3717413	4.64E-08	0.67YrCanc	4.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
962	ALL	484062.5	3717413	4.63E-08	0.67YrCanc	4.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
963	ALL	484487.5	3717413	2.14E-08	0.67YrCanc	2.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
964	ALL	484512.5	3717413	2.02E-08	0.67YrCanc	2.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
965	ALL	484537.5	3717413	1.92E-08	0.67YrCanc	1.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
966	ALL	484562.5	3717413	1.81E-08	0.67YrCanc	1.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL	484587.5	3717413	1.72E-08	0.67YrCanc	1.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
968	ALL	484612.5	3717413	1.62E-08	0.67YrCanc	1.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
969	ALL	484637.5	3717413	1.54E-08	0.67YrCanc	1.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
970	ALL	484662.5	3717413	1.46E-08	0.67YrCanc	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
971	ALL	484687.5	3717413	1.38E-08	0.67YrCanc	1.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
972	ALL	484712.5	3717413	1.31E-08	0.67YrCanc	1.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
973	ALL	484737.5	3717413	1.24E-08	0.67YrCanc	1.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
974	ALL	484762.5	3717413	1.18E-08	0.67YrCanc	1.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
975	ALL	484787.5	3717413	1.12E-08	0.67YrCanc	1.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
976	ALL	483412.5	3717438	1.19E-08	0.67YrCanc	1.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
977	ALL	483437.5	3717438	1.25E-08	0.67YrCanc	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
978	ALL	483462.5	3717438	1.32E-08	0.67YrCanc	1.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
979	ALL	483487.5	3717438	1.40E-08	0.67YrCanc	1.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
980	ALL	483512.5	3717438	1.49E-08	0.67YrCanc	1.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
981	ALL	483537.5	3717438	1.58E-08	0.67YrCanc	1.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
982	ALL	483562.5	3717438	1.69E-08	0.67YrCanc	1.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
983	ALL	483587.5	3717438	1.80E-08	0.67YrCanc	1.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
984	ALL	483837.5	3717438	3.74E-08	0.67YrCanc	3.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
985	ALL	483862.5	3717438	4.02E-08	0.67YrCanc	4.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
986	ALL	483887.5	3717438	4.31E-08	0.67YrCanc	4.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
987	ALL	483912.5	3717438	4.62E-08	0.67YrCanc	4.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
988	ALL	483937.5	3717438	4.87E-08	0.67YrCanc	4.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

989	ALL	483962.5	3717438	5.08E-08	0.67YrCanc	5.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
990	ALL	483987.5	3717438	5.23E-08	0.67YrCanc	5.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
991	ALL	484012.5	3717438	5.33E-08	0.67YrCanc	5.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
992	ALL	484037.5	3717438	5.37E-08	0.67YrCanc	5.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
993	ALL	484062.5	3717438	5.35E-08	0.67YrCanc	5.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
994	ALL	484487.5	3717438	2.24E-08	0.67YrCanc	2.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
995	ALL	484512.5	3717438	2.11E-08	0.67YrCanc	2.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
996	ALL	484537.5	3717438	1.98E-08	0.67YrCanc	1.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
997	ALL	484562.5	3717438	1.87E-08	0.67YrCanc	1.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
998	ALL	484587.5	3717438	1.77E-08	0.67YrCanc	1.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
999	ALL	484612.5	3717438	1.67E-08	0.67YrCanc	1.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1000	ALL	484637.5	3717438	1.58E-08	0.67YrCanc	1.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1001	ALL	484662.5	3717438	1.49E-08	0.67YrCanc	1.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1002	ALL	484687.5	3717438	1.41E-08	0.67YrCanc	1.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1003	ALL	484712.5	3717438	1.34E-08	0.67YrCanc	1.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1004	ALL	484737.5	3717438	1.27E-08	0.67YrCanc	1.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1005	ALL	484762.5	3717438	1.20E-08	0.67YrCanc	1.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1006	ALL	483412.5	3717463	1.22E-08	0.67YrCanc	1.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1007	ALL	483437.5	3717463	1.29E-08	0.67YrCanc	1.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1008	ALL	483462.5	3717463	1.37E-08	0.67YrCanc	1.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1009	ALL	483487.5	3717463	1.45E-08	0.67YrCanc	1.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1010	ALL	483512.5	3717463	1.55E-08	0.67YrCanc	1.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1011	ALL	483537.5	3717463	1.65E-08	0.67YrCanc	1.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1012	ALL	483562.5	3717463	1.76E-08	0.67YrCanc	1.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1013	ALL	483587.5	3717463	1.89E-08	0.67YrCanc	1.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1014	ALL	483887.5	3717463	4.96E-08	0.67YrCanc	4.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1015	ALL	483912.5	3717463	5.34E-08	0.67YrCanc	5.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1016	ALL	483937.5	3717463	5.68E-08	0.67YrCanc	5.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1017	ALL	483962.5	3717463	5.96E-08	0.67YrCanc	5.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1018	ALL	483987.5	3717463	6.17E-08	0.67YrCanc	6.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1019	ALL	484012.5	3717463	6.29E-08	0.67YrCanc	6.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1020	ALL	484037.5	3717463	6.33E-08	0.67YrCanc	6.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1021	ALL	484062.5	3717463	6.27E-08	0.67YrCanc	6.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1022	ALL	484487.5	3717463	2.33E-08	0.67YrCanc	2.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1023	ALL	484512.5	3717463	2.19E-08	0.67YrCanc	2.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1024	ALL	484537.5	3717463	2.05E-08	0.67YrCanc	2.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1025	ALL	484562.5	3717463	1.93E-08	0.67YrCanc	1.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1026	ALL	484587.5	3717463	1.82E-08	0.67YrCanc	1.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1027	ALL	484612.5	3717463	1.71E-08	0.67YrCanc	1.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1028	ALL	484637.5	3717463	1.61E-08	0.67YrCanc	1.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1029	ALL	484662.5	3717463	1.52E-08	0.67YrCanc	1.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1030	ALL	484687.5	3717463	1.44E-08	0.67YrCanc	1.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1031	ALL	484712.5	3717463	1.36E-08	0.67YrCanc	1.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1032	ALL	484737.5	3717463	1.29E-08	0.67YrCanc	1.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1033	ALL	484762.5	3717463	1.22E-08	0.67YrCanc	1.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1034	ALL	483412.5	3717488	1.25E-08	0.67YrCanc	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1035	ALL	483437.5	3717488	1.33E-08	0.67YrCanc	1.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1036	ALL	483462.5	3717488	1.41E-08	0.67YrCanc	1.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1037	ALL	483487.5	3717488	1.50E-08	0.67YrCanc	1.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1038	ALL	483512.5	3717488	1.60E-08	0.67YrCanc	1.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1039	ALL	483537.5	3717488	1.71E-08	0.67YrCanc	1.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1040	ALL	483562.5	3717488	1.84E-08	0.67YrCanc	1.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1041	ALL	483587.5	3717488	1.97E-08	0.67YrCanc	1.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1042	ALL	483612.5	3717488	2.13E-08	0.67YrCanc	2.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1043	ALL	483912.5	3717488	6.30E-08	0.67YrCanc	6.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1044	ALL	483937.5	3717488	6.77E-08	0.67YrCanc	6.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1045	ALL	483962.5	3717488	7.16E-08	0.67YrCanc	7.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1046	ALL	483987.5	3717488	7.46E-08	0.67YrCanc	7.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1047	ALL	484012.5	3717488	7.62E-08	0.67YrCanc	7.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1048	ALL	484037.5	3717488	7.63E-08	0.67YrCanc	7.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1049	ALL	484062.5	3717488	7.50E-08	0.67YrCanc	7.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1050	ALL	484537.5	3717488	2.12E-08	0.67YrCanc	2.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1051	ALL	484562.5	3717488	1.98E-08	0.67YrCanc	1.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1052	ALL	484587.5	3717488	1.86E-08	0.67YrCanc	1.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1053	ALL	484612.5	3717488	1.75E-08	0.67YrCanc	1.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1054	ALL	484637.5	3717488	1.65E-08	0.67YrCanc	1.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1055	ALL	484662.5	3717488	1.55E-08	0.67YrCanc	1.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1056	ALL	484687.5	3717488	1.46E-08	0.67YrCanc	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1057	ALL	484712.5	3717488	1.38E-08	0.67YrCanc	1.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1058	ALL	484737.5	3717488	1.30E-08	0.67YrCanc	1.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1059	ALL	484762.5	3717488	1.23E-08	0.67YrCanc	1.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1060	ALL	483412.5	3717513	1.28E-08	0.67YrCanc	1.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1061	ALL	483437.5	3717513	1.36E-08	0.67YrCanc	1.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1062	ALL	483462.5	3717513	1.45E-08	0.67YrCanc	1.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1063	ALL	483487.5	3717513	1.55E-08	0.67YrCanc	1.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1064	ALL	483512.5	3717513	1.66E-08	0.67YrCanc	1.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1065	ALL	483537.5	3717513	1.78E-08	0.67YrCanc	1.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1066	ALL	483562.5	3717513	1.91E-08	0.67YrCanc	1.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1067	ALL	483587.5	3717513	2.06E-08	0.67YrCanc	2.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1068	ALL	483612.5	3717513	2.23E-08	0.67YrCanc	2.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1069	ALL	483912.5	3717513	7.56E-08	0.67YrCanc	7.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1070	ALL	483937.5	3717513	8.25E-08	0.67YrCanc	8.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1071	ALL	483962.5	3717513	8.85E-08	0.67YrCanc	8.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1072	ALL	483987.5	3717513	9.27E-08	0.67YrCanc	9.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1073	ALL	484012.5	3717513	9.48E-08	0.67YrCanc	9.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1074	ALL	484037.5	3717513	9.45E-08	0.67YrCanc	9.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1075	ALL	484062.5	3717513	9.20E-08	0.67YrCanc	9.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1076	ALL	484537.5	3717513	2.18E-08	0.67YrCanc	2.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1077	ALL	484562.5	3717513	2.04E-08	0.67YrCanc	2.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1078	ALL	484587.5	3717513	1.91E-08	0.67YrCanc	1.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1079	ALL	484612.5	3717513	1.79E-08	0.67YrCanc	1.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1080	ALL	484637.5	3717513	1.68E-08	0.67YrCanc	1.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1081	ALL	484662.5	3717513	1.58E-08	0.67YrCanc	1.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1082	ALL	484687.5	3717513	1.49E-08	0.67YrCanc	1.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1083	ALL	484712.5	3717513	1.40E-08	0.67YrCanc	1.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1084	ALL	484737.5	3717513	1.32E-08	0.67YrCanc	1.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1085	ALL	484762.5	3717513	1.25E-08	0.67YrCanc	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1086	ALL	483412.5	3717538	1.31E-08	0.67YrCanc	1.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1087	ALL	483437.5	3717538	1.40E-08	0.67YrCanc	1.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1088	ALL	483462.5	3717538	1.50E-08	0.67YrCanc	1.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1089	ALL	483487.5	3717538	1.60E-08	0.67YrCanc	1.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1090	ALL	483512.5	3717538	1.71E-08	0.67YrCanc	1.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1091	ALL	483537.5	3717538	1.84E-08	0.67YrCanc	1.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1092	ALL	483562.5	3717538	1.99E-08	0.67YrCanc	1.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1093	ALL	483587.5	3717538	2.15E-08	0.67YrCanc	2.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1094	ALL	483612.5	3717538	2.34E-08	0.67YrCanc	2.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1095	ALL	483637.5	3717538	2.56E-08	0.67YrCanc	2.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1096	ALL	483937.5	3717538	1.04E-07	0.67YrCanc	1.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1097	ALL	483962.5	3717538	1.13E-07	0.67YrCanc	1.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1098	ALL	483987.5	3717538	1.20E-07	0.67YrCanc	1.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1099	ALL	484012.5	3717538	1.22E-07	0.67YrCanc	1.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1100	ALL	484037.5	3717538	1.21E-07	0.67YrCanc	1.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1101	ALL	484062.5	3717538	1.16E-07	0.67YrCanc	1.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1102	ALL	483412.5	3717563	1.34E-08	0.67YrCanc	1.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1103	ALL	483437.5	3717563	1.43E-08	0.67YrCanc	1.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1104	ALL	483462.5	3717563	1.53E-08	0.67YrCanc	1.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1105	ALL	483487.5	3717563	1.64E-08	0.67YrCanc	1.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1106	ALL	483512.5	3717563	1.77E-08	0.67YrCanc	1.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1107	ALL	483537.5	3717563	1.91E-08	0.67YrCanc	1.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1108	ALL	483562.5	3717563	2.06E-08	0.67YrCanc	2.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1109	ALL	483587.5	3717563	2.24E-08	0.67YrCanc	2.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1110	ALL	483612.5	3717563	2.45E-08	0.67YrCanc	2.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1111	ALL	483637.5	3717563	2.69E-08	0.67YrCanc	2.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1112	ALL	483937.5	3717563	1.34E-07	0.67YrCanc	1.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1113	ALL	483962.5	3717563	1.51E-07	0.67YrCanc	1.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1114	ALL	483987.5	3717563	1.62E-07	0.67YrCanc	1.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1115	ALL	484012.5	3717563	1.66E-07	0.67YrCanc	1.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1116	ALL	484037.5	3717563	1.61E-07	0.67YrCanc	1.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1117	ALL	484062.5	3717563	1.50E-07	0.67YrCanc	1.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1118	ALL	483412.5	3717588	1.36E-08	0.67YrCanc	1.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1119	ALL	483437.5	3717588	1.46E-08	0.67YrCanc	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1120	ALL	483462.5	3717588	1.57E-08	0.67YrCanc	1.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1121	ALL	483487.5	3717588	1.68E-08	0.67YrCanc	1.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1122	ALL	483512.5	3717588	1.82E-08	0.67YrCanc	1.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1123	ALL	483537.5	3717588	1.97E-08	0.67YrCanc	1.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1124	ALL	483562.5	3717588	2.14E-08	0.67YrCanc	2.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1125	ALL	483587.5	3717588	2.33E-08	0.67YrCanc	2.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1126	ALL	483612.5	3717588	2.55E-08	0.67YrCanc	2.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1127	ALL	483637.5	3717588	2.81E-08	0.67YrCanc	2.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1128	ALL	484512.5	3717613	2.61E-08	0.67YrCanc	2.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1129	ALL	484537.5	3717613	2.40E-08	0.67YrCanc	2.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1130	ALL	484562.5	3717613	2.21E-08	0.67YrCanc	2.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1131	ALL	484587.5	3717613	2.05E-08	0.67YrCanc	2.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1132	ALL	484612.5	3717613	1.90E-08	0.67YrCanc	1.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1133	ALL	484637.5	3717613	1.77E-08	0.67YrCanc	1.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1134	ALL	484662.5	3717613	1.65E-08	0.67YrCanc	1.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1135	ALL	484687.5	3717613	1.55E-08	0.67YrCanc	1.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1136	ALL	484712.5	3717613	1.45E-08	0.67YrCanc	1.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1137	ALL	484737.5	3717613	1.37E-08	0.67YrCanc	1.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1138	ALL	484762.5	3717613	1.29E-08	0.67YrCanc	1.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1139	ALL	484787.5	3717613	1.21E-08	0.67YrCanc	1.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1140	ALL	484812.5	3717613	1.15E-08	0.67YrCanc	1.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1141	ALL	484837.5	3717613	1.09E-08	0.67YrCanc	1.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1142	ALL	484862.5	3717613	1.03E-08	0.67YrCanc	1.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1143	ALL	484512.5	3717638	2.66E-08	0.67YrCanc	2.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1144	ALL	484537.5	3717638	2.44E-08	0.67YrCanc	2.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1145	ALL	484562.5	3717638	2.24E-08	0.67YrCanc	2.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1146	ALL	484587.5	3717638	2.07E-08	0.67YrCanc	2.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1147	ALL	484612.5	3717638	1.92E-08	0.67YrCanc	1.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1148	ALL	484637.5	3717638	1.79E-08	0.67YrCanc	1.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1149	ALL	484662.5	3717638	1.67E-08	0.67YrCanc	1.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1150	ALL	484687.5	3717638	1.56E-08	0.67YrCanc	1.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1151	ALL	484712.5	3717638	1.46E-08	0.67YrCanc	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1152	ALL	484737.5	3717638	1.37E-08	0.67YrCanc	1.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1153	ALL	484762.5	3717638	1.29E-08	0.67YrCanc	1.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1154	ALL	484787.5	3717638	1.22E-08	0.67YrCanc	1.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1155	ALL	484812.5	3717638	1.16E-08	0.67YrCanc	1.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1156	ALL	484837.5	3717638	1.10E-08	0.67YrCanc	1.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1157	ALL	484862.5	3717638	1.04E-08	0.67YrCanc	1.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1158	ALL	484512.5	3717663	2.71E-08	0.67YrCanc	2.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1159	ALL	484537.5	3717663	2.48E-08	0.67YrCanc	2.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1160	ALL	484562.5	3717663	2.28E-08	0.67YrCanc	2.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1161	ALL	484587.5	3717663	2.10E-08	0.67YrCanc	2.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1162	ALL	484612.5	3717663	1.94E-08	0.67YrCanc	1.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1163	ALL	484637.5	3717663	1.80E-08	0.67YrCanc	1.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1164	ALL	484662.5	3717663	1.68E-08	0.67YrCanc	1.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1165	ALL	484687.5	3717663	1.57E-08	0.67YrCanc	1.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1166	ALL	484712.5	3717663	1.47E-08	0.67YrCanc	1.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1167	ALL	484737.5	3717663	1.39E-08	0.67YrCanc	1.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1168	ALL	484762.5	3717663	1.30E-08	0.67YrCanc	1.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1169	ALL	484787.5	3717663	1.23E-08	0.67YrCanc	1.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1170	ALL	484812.5	3717663	1.17E-08	0.67YrCanc	1.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1171	ALL	484837.5	3717663	1.10E-08	0.67YrCanc	1.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1172	ALL	484862.5	3717663	1.05E-08	0.67YrCanc	1.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1173	ALL	484512.5	3717688	2.76E-08	0.67YrCanc	2.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1174	ALL	484537.5	3717688	2.51E-08	0.67YrCanc	2.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1175	ALL	484562.5	3717688	2.31E-08	0.67YrCanc	2.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1176	ALL	484587.5	3717688	2.12E-08	0.67YrCanc	2.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1177	ALL	484612.5	3717688	1.96E-08	0.67YrCanc	1.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1178	ALL	484637.5	3717688	1.82E-08	0.67YrCanc	1.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1179	ALL	484662.5	3717688	1.69E-08	0.67YrCanc	1.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1180	ALL	484687.5	3717688	1.58E-08	0.67YrCanc	1.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1181	ALL	484712.5	3717688	1.48E-08	0.67YrCanc	1.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1182	ALL	484737.5	3717688	1.39E-08	0.67YrCanc	1.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1183	ALL	484762.5	3717688	1.31E-08	0.67YrCanc	1.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1184	ALL	484787.5	3717688	1.24E-08	0.67YrCanc	1.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1185	ALL	484812.5	3717688	1.18E-08	0.67YrCanc	1.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1186	ALL	484837.5	3717688	1.11E-08	0.67YrCanc	1.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1187	ALL	484862.5	3717688	1.05E-08	0.67YrCanc	1.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1188	ALL	484512.5	3717713	2.80E-08	0.67YrCanc	2.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1189	ALL	484537.5	3717713	2.55E-08	0.67YrCanc	2.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1190	ALL	484562.5	3717713	2.33E-08	0.67YrCanc	2.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1191	ALL	484587.5	3717713	2.14E-08	0.67YrCanc	2.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1192	ALL	484612.5	3717713	1.98E-08	0.67YrCanc	1.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1193	ALL	484637.5	3717713	1.83E-08	0.67YrCanc	1.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1194	ALL	484662.5	3717713	1.71E-08	0.67YrCanc	1.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1195	ALL	484687.5	3717713	1.59E-08	0.67YrCanc	1.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1196	ALL	484712.5	3717713	1.49E-08	0.67YrCanc	1.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1197	ALL	484737.5	3717713	1.40E-08	0.67YrCanc	1.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1198	ALL	484762.5	3717713	1.32E-08	0.67YrCanc	1.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1199	ALL	484787.5	3717713	1.25E-08	0.67YrCanc	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1200	ALL	484812.5	3717713	1.18E-08	0.67YrCanc	1.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1201	ALL	484837.5	3717713	1.12E-08	0.67YrCanc	1.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1202	ALL	484862.5	3717713	1.06E-08	0.67YrCanc	1.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1203	ALL	484512.5	3717738	2.84E-08	0.67YrCanc	2.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1204	ALL	484537.5	3717738	2.58E-08	0.67YrCanc	2.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1205	ALL	484562.5	3717738	2.36E-08	0.67YrCanc	2.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1206	ALL	484587.5	3717738	2.17E-08	0.67YrCanc	2.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1207	ALL	484612.5	3717738	2.00E-08	0.67YrCanc	2.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1208	ALL	484637.5	3717738	1.85E-08	0.67YrCanc	1.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1209	ALL	484662.5	3717738	1.72E-08	0.67YrCanc	1.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1210	ALL	484687.5	3717738	1.60E-08	0.67YrCanc	1.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1211	ALL	484712.5	3717738	1.50E-08	0.67YrCanc	1.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1212	ALL	484737.5	3717738	1.41E-08	0.67YrCanc	1.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1213	ALL	484762.5	3717738	1.32E-08	0.67YrCanc	1.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1214	ALL	484787.5	3717738	1.25E-08	0.67YrCanc	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1215	ALL	484812.5	3717738	1.18E-08	0.67YrCanc	1.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1216	ALL	484837.5	3717738	1.12E-08	0.67YrCanc	1.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1217	ALL	484862.5	3717738	1.06E-08	0.67YrCanc	1.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1218	ALL	484512.5	3717763	2.88E-08	0.67YrCanc	2.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1219	ALL	484537.5	3717763	2.62E-08	0.67YrCanc	2.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1220	ALL	484562.5	3717763	2.39E-08	0.67YrCanc	2.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1221	ALL	484587.5	3717763	2.19E-08	0.67YrCanc	2.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1222	ALL	484612.5	3717763	2.02E-08	0.67YrCanc	2.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1223	ALL	484637.5	3717763	1.87E-08	0.67YrCanc	1.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1224	ALL	484662.5	3717763	1.73E-08	0.67YrCanc	1.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1225	ALL	484687.5	3717763	1.61E-08	0.67YrCanc	1.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1226	ALL	484712.5	3717763	1.51E-08	0.67YrCanc	1.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1227	ALL	484737.5	3717763	1.42E-08	0.67YrCanc	1.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1228	ALL	484762.5	3717763	1.33E-08	0.67YrCanc	1.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1229	ALL	484787.5	3717763	1.25E-08	0.67YrCanc	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1230	ALL	484812.5	3717763	1.18E-08	0.67YrCanc	1.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1231	ALL	484837.5	3717763	1.12E-08	0.67YrCanc	1.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1232	ALL	484862.5	3717763	1.06E-08	0.67YrCanc	1.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1233	ALL	484512.5	3717788	2.92E-08	0.67YrCanc	2.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1234	ALL	484537.5	3717788	2.65E-08	0.67YrCanc	2.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1235	ALL	484562.5	3717788	2.42E-08	0.67YrCanc	2.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1236	ALL	484587.5	3717788	2.22E-08	0.67YrCanc	2.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1237	ALL	484612.5	3717788	2.04E-08	0.67YrCanc	2.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1238	ALL	484637.5	3717788	1.89E-08	0.67YrCanc	1.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1239	ALL	484662.5	3717788	1.75E-08	0.67YrCanc	1.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1240	ALL	484687.5	3717788	1.63E-08	0.67YrCanc	1.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1241	ALL	484712.5	3717788	1.52E-08	0.67YrCanc	1.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1242	ALL	484737.5	3717788	1.43E-08	0.67YrCanc	1.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1243	ALL	484762.5	3717788	1.34E-08	0.67YrCanc	1.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1244	ALL	484787.5	3717788	1.26E-08	0.67YrCanc	1.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1245	ALL	484812.5	3717788	1.19E-08	0.67YrCanc	1.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1246	ALL	484837.5	3717788	1.12E-08	0.67YrCanc	1.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1247	ALL	484862.5	3717788	1.07E-08	0.67YrCanc	1.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1248	ALL	483412.5	3717813	1.48E-08	0.67YrCanc	1.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1249	ALL	483437.5	3717813	1.60E-08	0.67YrCanc	1.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1250	ALL	483462.5	3717813	1.72E-08	0.67YrCanc	1.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1251	ALL	483487.5	3717813	1.87E-08	0.67YrCanc	1.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1252	ALL	484512.5	3717813	2.96E-08	0.67YrCanc	2.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1253	ALL	484537.5	3717813	2.69E-08	0.67YrCanc	2.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1254	ALL	484562.5	3717813	2.46E-08	0.67YrCanc	2.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1255	ALL	484587.5	3717813	2.25E-08	0.67YrCanc	2.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1256	ALL	484612.5	3717813	2.06E-08	0.67YrCanc	2.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1257	ALL	484637.5	3717813	1.90E-08	0.67YrCanc	1.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1258	ALL	484662.5	3717813	1.77E-08	0.67YrCanc	1.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1259	ALL	484687.5	3717813	1.64E-08	0.67YrCanc	1.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1260	ALL	484712.5	3717813	1.53E-08	0.67YrCanc	1.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1261	ALL	484737.5	3717813	1.44E-08	0.67YrCanc	1.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1262	ALL	484762.5	3717813	1.35E-08	0.67YrCanc	1.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1263	ALL	484787.5	3717813	1.27E-08	0.67YrCanc	1.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1264	ALL	484812.5	3717813	1.20E-08	0.67YrCanc	1.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1265	ALL	484837.5	3717813	1.13E-08	0.67YrCanc	1.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1266	ALL	484862.5	3717813	1.07E-08	0.67YrCanc	1.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1267	ALL	483412.5	3717838	1.48E-08	0.67YrCanc	1.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1268	ALL	483437.5	3717838	1.60E-08	0.67YrCanc	1.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1269	ALL	483462.5	3717838	1.72E-08	0.67YrCanc	1.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1270	ALL	483487.5	3717838	1.87E-08	0.67YrCanc	1.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1271	ALL	483512.5	3717838	2.04E-08	0.67YrCanc	2.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1272	ALL	484512.5	3717838	3.00E-08	0.67YrCanc	3.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1273	ALL	484537.5	3717838	2.72E-08	0.67YrCanc	2.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1274	ALL	484562.5	3717838	2.48E-08	0.67YrCanc	2.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1275	ALL	484587.5	3717838	2.27E-08	0.67YrCanc	2.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1276	ALL	484612.5	3717838	2.09E-08	0.67YrCanc	2.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1277	ALL	484637.5	3717838	1.92E-08	0.67YrCanc	1.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1278	ALL	484662.5	3717838	1.78E-08	0.67YrCanc	1.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1279	ALL	484687.5	3717838	1.66E-08	0.67YrCanc	1.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1280	ALL	484712.5	3717838	1.55E-08	0.67YrCanc	1.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1281	ALL	484737.5	3717838	1.45E-08	0.67YrCanc	1.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1282	ALL	484762.5	3717838	1.36E-08	0.67YrCanc	1.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1283	ALL	484787.5	3717838	1.28E-08	0.67YrCanc	1.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1284	ALL	484812.5	3717838	1.21E-08	0.67YrCanc	1.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1285	ALL	484837.5	3717838	1.14E-08	0.67YrCanc	1.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1286	ALL	484862.5	3717838	1.08E-08	0.67YrCanc	1.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1287	ALL	483412.5	3717863	1.48E-08	0.67YrCanc	1.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1288	ALL	483437.5	3717863	1.59E-08	0.67YrCanc	1.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1289	ALL	483462.5	3717863	1.72E-08	0.67YrCanc	1.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1290	ALL	483487.5	3717863	1.87E-08	0.67YrCanc	1.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1291	ALL	483512.5	3717863	2.03E-08	0.67YrCanc	2.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1292	ALL	484512.5	3717863	3.04E-08	0.67YrCanc	3.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1293	ALL	484537.5	3717863	2.76E-08	0.67YrCanc	2.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1294	ALL	484562.5	3717863	2.51E-08	0.67YrCanc	2.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1295	ALL	484587.5	3717863	2.30E-08	0.67YrCanc	2.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1296	ALL	484612.5	3717863	2.11E-08	0.67YrCanc	2.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1297	ALL	484637.5	3717863	1.95E-08	0.67YrCanc	1.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1298	ALL	484662.5	3717863	1.80E-08	0.67YrCanc	1.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1299	ALL	484687.5	3717863	1.68E-08	0.67YrCanc	1.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1300	ALL	484712.5	3717863	1.56E-08	0.67YrCanc	1.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1301	ALL	484737.5	3717863	1.46E-08	0.67YrCanc	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1302	ALL	484762.5	3717863	1.37E-08	0.67YrCanc	1.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1303	ALL	484787.5	3717863	1.29E-08	0.67YrCanc	1.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1304	ALL	484812.5	3717863	1.22E-08	0.67YrCanc	1.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1305	ALL	484837.5	3717863	1.15E-08	0.67YrCanc	1.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1306	ALL	484862.5	3717863	1.09E-08	0.67YrCanc	1.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1307	ALL	483412.5	3717888	1.47E-08	0.67YrCanc	1.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1308	ALL	483437.5	3717888	1.58E-08	0.67YrCanc	1.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1309	ALL	483462.5	3717888	1.71E-08	0.67YrCanc	1.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1310	ALL	483487.5	3717888	1.86E-08	0.67YrCanc	1.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1311	ALL	483512.5	3717888	2.02E-08	0.67YrCanc	2.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1312	ALL	483537.5	3717888	2.21E-08	0.67YrCanc	2.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1313	ALL	484512.5	3717888	3.08E-08	0.67YrCanc	3.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1314	ALL	484537.5	3717888	2.79E-08	0.67YrCanc	2.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1315	ALL	484562.5	3717888	2.54E-08	0.67YrCanc	2.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1316	ALL	484587.5	3717888	2.32E-08	0.67YrCanc	2.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1317	ALL	484612.5	3717888	2.13E-08	0.67YrCanc	2.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1318	ALL	484637.5	3717888	1.97E-08	0.67YrCanc	1.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1319	ALL	484662.5	3717888	1.82E-08	0.67YrCanc	1.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1320	ALL	484687.5	3717888	1.69E-08	0.67YrCanc	1.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1321	ALL	484712.5	3717888	1.58E-08	0.67YrCanc	1.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1322	ALL	484737.5	3717888	1.48E-08	0.67YrCanc	1.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1323	ALL	484762.5	3717888	1.39E-08	0.67YrCanc	1.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1324	ALL	484787.5	3717888	1.30E-08	0.67YrCanc	1.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1325	ALL	484812.5	3717888	1.23E-08	0.67YrCanc	1.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1326	ALL	484837.5	3717888	1.16E-08	0.67YrCanc	1.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1327	ALL	484862.5	3717888	1.10E-08	0.67YrCanc	1.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1328	ALL	483412.5	3717913	1.46E-08	0.67YrCanc	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1329	ALL	483437.5	3717913	1.57E-08	0.67YrCanc	1.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1330	ALL	483462.5	3717913	1.70E-08	0.67YrCanc	1.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1331	ALL	483487.5	3717913	1.83E-08	0.67YrCanc	1.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1332	ALL	483512.5	3717913	1.99E-08	0.67YrCanc	1.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1333	ALL	483537.5	3717913	2.17E-08	0.67YrCanc	2.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1334	ALL	483562.5	3717913	2.40E-08	0.67YrCanc	2.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1335	ALL	484512.5	3717913	3.11E-08	0.67YrCanc	3.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1336	ALL	484537.5	3717913	2.82E-08	0.67YrCanc	2.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1337	ALL	484562.5	3717913	2.57E-08	0.67YrCanc	2.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1338	ALL	484587.5	3717913	2.35E-08	0.67YrCanc	2.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1339	ALL	484612.5	3717913	2.16E-08	0.67YrCanc	2.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1340	ALL	484637.5	3717913	1.99E-08	0.67YrCanc	1.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1341	ALL	484662.5	3717913	1.84E-08	0.67YrCanc	1.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1342	ALL	484687.5	3717913	1.71E-08	0.67YrCanc	1.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1343	ALL	484712.5	3717913	1.60E-08	0.67YrCanc	1.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1344	ALL	484737.5	3717913	1.49E-08	0.67YrCanc	1.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1345	ALL	484762.5	3717913	1.40E-08	0.67YrCanc	1.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1346	ALL	484787.5	3717913	1.31E-08	0.67YrCanc	1.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1347	ALL	484812.5	3717913	1.24E-08	0.67YrCanc	1.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1348	ALL	484837.5	3717913	1.17E-08	0.67YrCanc	1.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1349	ALL	484862.5	3717913	1.11E-08	0.67YrCanc	1.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1350	ALL	483412.5	3717938	1.45E-08	0.67YrCanc	1.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1351	ALL	483437.5	3717938	1.56E-08	0.67YrCanc	1.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1352	ALL	483462.5	3717938	1.68E-08	0.67YrCanc	1.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1353	ALL	483487.5	3717938	1.81E-08	0.67YrCanc	1.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1354	ALL	483512.5	3717938	1.96E-08	0.67YrCanc	1.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1355	ALL	483537.5	3717938	2.14E-08	0.67YrCanc	2.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1356	ALL	483562.5	3717938	2.35E-08	0.67YrCanc	2.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1357	ALL	483587.5	3717938	2.62E-08	0.67YrCanc	2.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1358	ALL	484512.5	3717938	3.15E-08	0.67YrCanc	3.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1359	ALL	484537.5	3717938	2.85E-08	0.67YrCanc	2.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1360	ALL	484562.5	3717938	2.60E-08	0.67YrCanc	2.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1361	ALL	484587.5	3717938	2.38E-08	0.67YrCanc	2.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1362	ALL	484612.5	3717938	2.18E-08	0.67YrCanc	2.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1363	ALL	484637.5	3717938	2.01E-08	0.67YrCanc	2.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1364	ALL	484662.5	3717938	1.86E-08	0.67YrCanc	1.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1365	ALL	484687.5	3717938	1.73E-08	0.67YrCanc	1.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1366	ALL	484712.5	3717938	1.61E-08	0.67YrCanc	1.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1367	ALL	484737.5	3717938	1.51E-08	0.67YrCanc	1.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1368	ALL	484762.5	3717938	1.41E-08	0.67YrCanc	1.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1369	ALL	484787.5	3717938	1.33E-08	0.67YrCanc	1.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1370	ALL	484812.5	3717938	1.25E-08	0.67YrCanc	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1371	ALL	484837.5	3717938	1.18E-08	0.67YrCanc	1.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1372	ALL	484862.5	3717938	1.12E-08	0.67YrCanc	1.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1373	ALL	483412.5	3717963	1.44E-08	0.67YrCanc	1.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1374	ALL	483437.5	3717963	1.54E-08	0.67YrCanc	1.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1375	ALL	483462.5	3717963	1.66E-08	0.67YrCanc	1.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1376	ALL	483487.5	3717963	1.79E-08	0.67YrCanc	1.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1377	ALL	483512.5	3717963	1.94E-08	0.67YrCanc	1.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1378	ALL	483537.5	3717963	2.12E-08	0.67YrCanc	2.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1379	ALL	483562.5	3717963	2.33E-08	0.67YrCanc	2.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1380	ALL	483587.5	3717963	2.57E-08	0.67YrCanc	2.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1381	ALL	483612.5	3717963	2.85E-08	0.67YrCanc	2.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1382	ALL	484512.5	3717963	3.18E-08	0.67YrCanc	3.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1383	ALL	484537.5	3717963	2.88E-08	0.67YrCanc	2.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1384	ALL	484562.5	3717963	2.62E-08	0.67YrCanc	2.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1385	ALL	484587.5	3717963	2.40E-08	0.67YrCanc	2.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1386	ALL	484612.5	3717963	2.20E-08	0.67YrCanc	2.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1387	ALL	484637.5	3717963	2.03E-08	0.67YrCanc	2.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1388	ALL	484662.5	3717963	1.88E-08	0.67YrCanc	1.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1389	ALL	484687.5	3717963	1.75E-08	0.67YrCanc	1.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1390	ALL	484712.5	3717963	1.63E-08	0.67YrCanc	1.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1391	ALL	484737.5	3717963	1.52E-08	0.67YrCanc	1.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1392	ALL	484762.5	3717963	1.43E-08	0.67YrCanc	1.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1393	ALL	484787.5	3717963	1.34E-08	0.67YrCanc	1.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1394	ALL	484812.5	3717963	1.26E-08	0.67YrCanc	1.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1395	ALL	484837.5	3717963	1.19E-08	0.67YrCanc	1.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1396	ALL	484862.5	3717963	1.13E-08	0.67YrCanc	1.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1397	ALL	483412.5	3717988	1.41E-08	0.67YrCanc	1.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1398	ALL	483437.5	3717988	1.52E-08	0.67YrCanc	1.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1399	ALL	483462.5	3717988	1.63E-08	0.67YrCanc	1.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1400	ALL	483487.5	3717988	1.76E-08	0.67YrCanc	1.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1401	ALL	483512.5	3717988	1.91E-08	0.67YrCanc	1.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1402	ALL	483537.5	3717988	2.09E-08	0.67YrCanc	2.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1403	ALL	483562.5	3717988	2.28E-08	0.67YrCanc	2.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1404	ALL	483587.5	3717988	2.51E-08	0.67YrCanc	2.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1405	ALL	483612.5	3717988	2.78E-08	0.67YrCanc	2.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1406	ALL	484512.5	3717988	3.20E-08	0.67YrCanc	3.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1407	ALL	484537.5	3717988	2.90E-08	0.67YrCanc	2.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1408	ALL	484562.5	3717988	2.65E-08	0.67YrCanc	2.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1409	ALL	484587.5	3717988	2.42E-08	0.67YrCanc	2.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1410	ALL	484612.5	3717988	2.23E-08	0.67YrCanc	2.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1411	ALL	484637.5	3717988	2.05E-08	0.67YrCanc	2.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1412	ALL	484662.5	3717988	1.90E-08	0.67YrCanc	1.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1413	ALL	484687.5	3717988	1.77E-08	0.67YrCanc	1.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1414	ALL	484712.5	3717988	1.65E-08	0.67YrCanc	1.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1415	ALL	484737.5	3717988	1.54E-08	0.67YrCanc	1.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1416	ALL	484762.5	3717988	1.44E-08	0.67YrCanc	1.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1417	ALL	484787.5	3717988	1.35E-08	0.67YrCanc	1.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1418	ALL	484812.5	3717988	1.27E-08	0.67YrCanc	1.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1419	ALL	484837.5	3717988	1.20E-08	0.67YrCanc	1.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1420	ALL	484862.5	3717988	1.14E-08	0.67YrCanc	1.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1421	ALL	483412.5	3718013	1.39E-08	0.67YrCanc	1.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1422	ALL	483437.5	3718013	1.49E-08	0.67YrCanc	1.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1423	ALL	483462.5	3718013	1.60E-08	0.67YrCanc	1.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1424	ALL	483487.5	3718013	1.72E-08	0.67YrCanc	1.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1425	ALL	483512.5	3718013	1.87E-08	0.67YrCanc	1.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1426	ALL	483537.5	3718013	2.04E-08	0.67YrCanc	2.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1427	ALL	483562.5	3718013	2.23E-08	0.67YrCanc	2.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1428	ALL	483587.5	3718013	2.45E-08	0.67YrCanc	2.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1429	ALL	483612.5	3718013	2.70E-08	0.67YrCanc	2.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1430	ALL	483637.5	3718013	2.99E-08	0.67YrCanc	2.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1431	ALL	484512.5	3718013	3.21E-08	0.67YrCanc	3.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1432	ALL	484537.5	3718013	2.92E-08	0.67YrCanc	2.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1433	ALL	484562.5	3718013	2.66E-08	0.67YrCanc	2.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1434	ALL	484587.5	3718013	2.44E-08	0.67YrCanc	2.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1435	ALL	484612.5	3718013	2.24E-08	0.67YrCanc	2.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1436	ALL	484637.5	3718013	2.07E-08	0.67YrCanc	2.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1437	ALL	484662.5	3718013	1.92E-08	0.67YrCanc	1.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1438	ALL	484687.5	3718013	1.78E-08	0.67YrCanc	1.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1439	ALL	484712.5	3718013	1.66E-08	0.67YrCanc	1.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1440	ALL	484737.5	3718013	1.55E-08	0.67YrCanc	1.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1441	ALL	484762.5	3718013	1.45E-08	0.67YrCanc	1.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1442	ALL	484787.5	3718013	1.37E-08	0.67YrCanc	1.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1443	ALL	484812.5	3718013	1.29E-08	0.67YrCanc	1.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1444	ALL	484837.5	3718013	1.21E-08	0.67YrCanc	1.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1445	ALL	484862.5	3718013	1.15E-08	0.67YrCanc	1.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1446	ALL	483412.5	3718038	1.36E-08	0.67YrCanc	1.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1447	ALL	483437.5	3718038	1.45E-08	0.67YrCanc	1.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1448	ALL	483462.5	3718038	1.56E-08	0.67YrCanc	1.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1449	ALL	483487.5	3718038	1.68E-08	0.67YrCanc	1.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1450	ALL	483512.5	3718038	1.82E-08	0.67YrCanc	1.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1451	ALL	483537.5	3718038	1.99E-08	0.67YrCanc	1.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1452	ALL	483562.5	3718038	2.18E-08	0.67YrCanc	2.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1453	ALL	483587.5	3718038	2.38E-08	0.67YrCanc	2.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1454	ALL	483612.5	3718038	2.61E-08	0.67YrCanc	2.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1455	ALL	483637.5	3718038	2.89E-08	0.67YrCanc	2.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1456	ALL	483662.5	3718038	3.22E-08	0.67YrCanc	3.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1457	ALL	484512.5	3718038	3.21E-08	0.67YrCanc	3.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1458	ALL	484537.5	3718038	2.92E-08	0.67YrCanc	2.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1459	ALL	484562.5	3718038	2.67E-08	0.67YrCanc	2.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1460	ALL	484587.5	3718038	2.45E-08	0.67YrCanc	2.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1461	ALL	484612.5	3718038	2.26E-08	0.67YrCanc	2.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1462	ALL	484637.5	3718038	2.09E-08	0.67YrCanc	2.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1463	ALL	484662.5	3718038	1.93E-08	0.67YrCanc	1.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1464	ALL	484687.5	3718038	1.80E-08	0.67YrCanc	1.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1465	ALL	484712.5	3718038	1.67E-08	0.67YrCanc	1.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1466	ALL	484737.5	3718038	1.56E-08	0.67YrCanc	1.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1467	ALL	484762.5	3718038	1.47E-08	0.67YrCanc	1.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1468	ALL	484787.5	3718038	1.38E-08	0.67YrCanc	1.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1469	ALL	484812.5	3718038	1.30E-08	0.67YrCanc	1.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1470	ALL	484837.5	3718038	1.22E-08	0.67YrCanc	1.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1471	ALL	484862.5	3718038	1.16E-08	0.67YrCanc	1.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1472	ALL	483412.5	3718063	1.33E-08	0.67YrCanc	1.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1473	ALL	483437.5	3718063	1.42E-08	0.67YrCanc	1.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1474	ALL	483462.5	3718063	1.52E-08	0.67YrCanc	1.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1475	ALL	483487.5	3718063	1.64E-08	0.67YrCanc	1.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1476	ALL	483512.5	3718063	1.78E-08	0.67YrCanc	1.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1477	ALL	483537.5	3718063	1.94E-08	0.67YrCanc	1.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1478	ALL	483562.5	3718063	2.12E-08	0.67YrCanc	2.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1479	ALL	483587.5	3718063	2.30E-08	0.67YrCanc	2.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1480	ALL	483612.5	3718063	2.52E-08	0.67YrCanc	2.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1481	ALL	483637.5	3718063	2.79E-08	0.67YrCanc	2.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1482	ALL	483662.5	3718063	3.08E-08	0.67YrCanc	3.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1483	ALL	484512.5	3718063	3.19E-08	0.67YrCanc	3.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1484	ALL	484537.5	3718063	2.92E-08	0.67YrCanc	2.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1485	ALL	484562.5	3718063	2.67E-08	0.67YrCanc	2.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1486	ALL	484587.5	3718063	2.46E-08	0.67YrCanc	2.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1487	ALL	484612.5	3718063	2.26E-08	0.67YrCanc	2.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1488	ALL	484637.5	3718063	2.09E-08	0.67YrCanc	2.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1489	ALL	484662.5	3718063	1.94E-08	0.67YrCanc	1.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1490	ALL	484687.5	3718063	1.81E-08	0.67YrCanc	1.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1491	ALL	483412.5	3718088	1.29E-08	0.67YrCanc	1.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1492	ALL	483437.5	3718088	1.38E-08	0.67YrCanc	1.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1493	ALL	483462.5	3718088	1.48E-08	0.67YrCanc	1.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1494	ALL	483487.5	3718088	1.60E-08	0.67YrCanc	1.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1495	ALL	483512.5	3718088	1.73E-08	0.67YrCanc	1.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1496	ALL	483537.5	3718088	1.88E-08	0.67YrCanc	1.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1497	ALL	483562.5	3718088	2.05E-08	0.67YrCanc	2.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1498	ALL	483587.5	3718088	2.23E-08	0.67YrCanc	2.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1499	ALL	483612.5	3718088	2.44E-08	0.67YrCanc	2.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1500	ALL	483637.5	3718088	2.68E-08	0.67YrCanc	2.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1501	ALL	483662.5	3718088	2.92E-08	0.67YrCanc	2.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1502	ALL	484512.5	3718088	3.15E-08	0.67YrCanc	3.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1503	ALL	484537.5	3718088	2.89E-08	0.67YrCanc	2.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1504	ALL	484562.5	3718088	2.66E-08	0.67YrCanc	2.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1505	ALL	484587.5	3718088	2.45E-08	0.67YrCanc	2.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1506	ALL	484612.5	3718088	2.26E-08	0.67YrCanc	2.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1507	ALL	484637.5	3718088	2.10E-08	0.67YrCanc	2.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1508	ALL	484662.5	3718088	1.95E-08	0.67YrCanc	1.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1509	ALL	484687.5	3718088	1.81E-08	0.67YrCanc	1.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1510	ALL	483412.5	3718113	1.26E-08	0.67YrCanc	1.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1511	ALL	483437.5	3718113	1.34E-08	0.67YrCanc	1.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1512	ALL	483462.5	3718113	1.45E-08	0.67YrCanc	1.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1513	ALL	483487.5	3718113	1.56E-08	0.67YrCanc	1.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1514	ALL	483512.5	3718113	1.69E-08	0.67YrCanc	1.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1515	ALL	483537.5	3718113	1.82E-08	0.67YrCanc	1.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1516	ALL	483562.5	3718113	1.97E-08	0.67YrCanc	1.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1517	ALL	483587.5	3718113	2.16E-08	0.67YrCanc	2.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1518	ALL	483612.5	3718113	2.35E-08	0.67YrCanc	2.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1519	ALL	483637.5	3718113	2.55E-08	0.67YrCanc	2.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1520	ALL	483662.5	3718113	2.78E-08	0.67YrCanc	2.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1521	ALL	483687.5	3718113	3.05E-08	0.67YrCanc	3.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1522	ALL	484512.5	3718113	3.10E-08	0.67YrCanc	3.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1523	ALL	484537.5	3718113	2.85E-08	0.67YrCanc	2.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1524	ALL	484562.5	3718113	2.63E-08	0.67YrCanc	2.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1525	ALL	484587.5	3718113	2.43E-08	0.67YrCanc	2.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1526	ALL	484612.5	3718113	2.26E-08	0.67YrCanc	2.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1527	ALL	484637.5	3718113	2.09E-08	0.67YrCanc	2.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1528	ALL	484662.5	3718113	1.95E-08	0.67YrCanc	1.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1529	ALL	484687.5	3718113	1.81E-08	0.67YrCanc	1.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1530	ALL	483412.5	3718138	1.24E-08	0.67YrCanc	1.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1531	ALL	483437.5	3718138	1.32E-08	0.67YrCanc	1.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1532	ALL	483462.5	3718138	1.42E-08	0.67YrCanc	1.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1533	ALL	483487.5	3718138	1.52E-08	0.67YrCanc	1.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1534	ALL	483512.5	3718138	1.64E-08	0.67YrCanc	1.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1535	ALL	483537.5	3718138	1.76E-08	0.67YrCanc	1.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1536	ALL	483562.5	3718138	1.90E-08	0.67YrCanc	1.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1537	ALL	483587.5	3718138	2.06E-08	0.67YrCanc	2.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1538	ALL	483612.5	3718138	2.24E-08	0.67YrCanc	2.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1539	ALL	483637.5	3718138	2.43E-08	0.67YrCanc	2.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1540	ALL	483662.5	3718138	2.65E-08	0.67YrCanc	2.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1541	ALL	483687.5	3718138	2.89E-08	0.67YrCanc	2.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1542	ALL	484512.5	3718138	3.03E-08	0.67YrCanc	3.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1543	ALL	484537.5	3718138	2.80E-08	0.67YrCanc	2.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1544	ALL	484562.5	3718138	2.60E-08	0.67YrCanc	2.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1545	ALL	484587.5	3718138	2.41E-08	0.67YrCanc	2.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1546	ALL	484612.5	3718138	2.24E-08	0.67YrCanc	2.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1547	ALL	484637.5	3718138	2.08E-08	0.67YrCanc	2.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1548	ALL	484662.5	3718138	1.94E-08	0.67YrCanc	1.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1549	ALL	484687.5	3718138	1.81E-08	0.67YrCanc	1.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1550	ALL	483412.5	3718163	1.22E-08	0.67YrCanc	1.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1551	ALL	483437.5	3718163	1.30E-08	0.67YrCanc	1.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1552	ALL	483462.5	3718163	1.39E-08	0.67YrCanc	1.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1553	ALL	483487.5	3718163	1.48E-08	0.67YrCanc	1.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1554	ALL	483512.5	3718163	1.59E-08	0.67YrCanc	1.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1555	ALL	483537.5	3718163	1.71E-08	0.67YrCanc	1.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1556	ALL	483562.5	3718163	1.84E-08	0.67YrCanc	1.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1557	ALL	483587.5	3718163	1.98E-08	0.67YrCanc	1.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1558	ALL	483612.5	3718163	2.14E-08	0.67YrCanc	2.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1559	ALL	483637.5	3718163	2.32E-08	0.67YrCanc	2.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1560	ALL	483662.5	3718163	2.52E-08	0.67YrCanc	2.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1561	ALL	483687.5	3718163	2.74E-08	0.67YrCanc	2.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1562	ALL	484512.5	3718163	2.95E-08	0.67YrCanc	2.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1563	ALL	484537.5	3718163	2.74E-08	0.67YrCanc	2.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1564	ALL	484562.5	3718163	2.55E-08	0.67YrCanc	2.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1565	ALL	484587.5	3718163	2.37E-08	0.67YrCanc	2.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1566	ALL	484612.5	3718163	2.21E-08	0.67YrCanc	2.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1567	ALL	484637.5	3718163	2.06E-08	0.67YrCanc	2.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1568	ALL	484662.5	3718163	1.93E-08	0.67YrCanc	1.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1569	ALL	484687.5	3718163	1.81E-08	0.67YrCanc	1.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1570	ALL	484712.5	3718163	1.69E-08	0.67YrCanc	1.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1571	ALL	484737.5	3718163	1.59E-08	0.67YrCanc	1.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1572	ALL	484762.5	3718163	1.50E-08	0.67YrCanc	1.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1573	ALL	484787.5	3718163	1.41E-08	0.67YrCanc	1.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1574	ALL	484812.5	3718163	1.33E-08	0.67YrCanc	1.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1575	ALL	484837.5	3718163	1.26E-08	0.67YrCanc	1.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1576	ALL	484862.5	3718163	1.19E-08	0.67YrCanc	1.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1577	ALL	483412.5	3718188	1.20E-08	0.67YrCanc	1.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1578	ALL	483437.5	3718188	1.27E-08	0.67YrCanc	1.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1579	ALL	483462.5	3718188	1.35E-08	0.67YrCanc	1.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1580	ALL	483487.5	3718188	1.45E-08	0.67YrCanc	1.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1581	ALL	483512.5	3718188	1.55E-08	0.67YrCanc	1.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1582	ALL	483537.5	3718188	1.67E-08	0.67YrCanc	1.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1583	ALL	483562.5	3718188	1.78E-08	0.67YrCanc	1.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1584	ALL	484512.5	3718188	2.85E-08	0.67YrCanc	2.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1585	ALL	484537.5	3718188	2.66E-08	0.67YrCanc	2.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1586	ALL	484562.5	3718188	2.49E-08	0.67YrCanc	2.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1587	ALL	484587.5	3718188	2.33E-08	0.67YrCanc	2.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1588	ALL	484612.5	3718188	2.18E-08	0.67YrCanc	2.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1589	ALL	484637.5	3718188	2.04E-08	0.67YrCanc	2.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1590	ALL	484662.5	3718188	1.91E-08	0.67YrCanc	1.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1591	ALL	484687.5	3718188	1.79E-08	0.67YrCanc	1.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1592	ALL	484712.5	3718188	1.69E-08	0.67YrCanc	1.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1593	ALL	484737.5	3718188	1.59E-08	0.67YrCanc	1.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1594	ALL	484762.5	3718188	1.49E-08	0.67YrCanc	1.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1595	ALL	484787.5	3718188	1.41E-08	0.67YrCanc	1.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1596	ALL	484812.5	3718188	1.33E-08	0.67YrCanc	1.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1597	ALL	484837.5	3718188	1.26E-08	0.67YrCanc	1.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1598	ALL	484862.5	3718188	1.20E-08	0.67YrCanc	1.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1599	ALL	484162.5	3718213	4.79E-08	0.67YrCanc	4.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1600	ALL	484187.5	3718213	4.78E-08	0.67YrCanc	4.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1601	ALL	484212.5	3718213	4.73E-08	0.67YrCanc	4.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1602	ALL	484512.5	3718213	2.74E-08	0.67YrCanc	2.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1603	ALL	484537.5	3718213	2.57E-08	0.67YrCanc	2.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1604	ALL	484562.5	3718213	2.42E-08	0.67YrCanc	2.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1605	ALL	484587.5	3718213	2.27E-08	0.67YrCanc	2.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1606	ALL	484612.5	3718213	2.13E-08	0.67YrCanc	2.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1607	ALL	484637.5	3718213	2.00E-08	0.67YrCanc	2.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1608	ALL	484662.5	3718213	1.89E-08	0.67YrCanc	1.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1609	ALL	484687.5	3718213	1.77E-08	0.67YrCanc	1.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1610	ALL	484712.5	3718213	1.67E-08	0.67YrCanc	1.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1611	ALL	484737.5	3718213	1.58E-08	0.67YrCanc	1.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1612	ALL	484762.5	3718213	1.49E-08	0.67YrCanc	1.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1613	ALL	484787.5	3718213	1.41E-08	0.67YrCanc	1.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1614	ALL	484812.5	3718213	1.33E-08	0.67YrCanc	1.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1615	ALL	484837.5	3718213	1.26E-08	0.67YrCanc	1.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1616	ALL	484862.5	3718213	1.20E-08	0.67YrCanc	1.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1617	ALL	484512.5	3718238	2.62E-08	0.67YrCanc	2.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1618	ALL	484537.5	3718238	2.48E-08	0.67YrCanc	2.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1619	ALL	484562.5	3718238	2.34E-08	0.67YrCanc	2.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1620	ALL	484587.5	3718238	2.21E-08	0.67YrCanc	2.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1621	ALL	484612.5	3718238	2.08E-08	0.67YrCanc	2.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1622	ALL	484637.5	3718238	1.96E-08	0.67YrCanc	1.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1623	ALL	484662.5	3718238	1.85E-08	0.67YrCanc	1.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1624	ALL	484687.5	3718238	1.75E-08	0.67YrCanc	1.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1625	ALL	484712.5	3718238	1.65E-08	0.67YrCanc	1.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1626	ALL	484737.5	3718238	1.56E-08	0.67YrCanc	1.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1627	ALL	484762.5	3718238	1.48E-08	0.67YrCanc	1.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1628	ALL	484787.5	3718238	1.40E-08	0.67YrCanc	1.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1629	ALL	484812.5	3718238	1.33E-08	0.67YrCanc	1.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1630	ALL	484837.5	3718238	1.26E-08	0.67YrCanc	1.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1631	ALL	484862.5	3718238	1.20E-08	0.67YrCanc	1.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1632	ALL	483412.5	3718263	1.11E-08	0.67YrCanc	1.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1633	ALL	483437.5	3718263	1.17E-08	0.67YrCanc	1.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1634	ALL	484137.5	3718263	3.66E-08	0.67YrCanc	3.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1635	ALL	484162.5	3718263	3.68E-08	0.67YrCanc	3.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1636	ALL	484212.5	3718263	3.68E-08	0.67YrCanc	3.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1637	ALL	484512.5	3718263	2.50E-08	0.67YrCanc	2.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1638	ALL	484537.5	3718263	2.38E-08	0.67YrCanc	2.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1639	ALL	484562.5	3718263	2.26E-08	0.67YrCanc	2.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1640	ALL	484587.5	3718263	2.14E-08	0.67YrCanc	2.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1641	ALL	484612.5	3718263	2.03E-08	0.67YrCanc	2.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1642	ALL	484637.5	3718263	1.92E-08	0.67YrCanc	1.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1643	ALL	484662.5	3718263	1.82E-08	0.67YrCanc	1.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1644	ALL	484687.5	3718263	1.72E-08	0.67YrCanc	1.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1645	ALL	484712.5	3718263	1.63E-08	0.67YrCanc	1.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1646	ALL	484737.5	3718263	1.54E-08	0.67YrCanc	1.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1647	ALL	484762.5	3718263	1.46E-08	0.67YrCanc	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1648	ALL	484787.5	3718263	1.39E-08	0.67YrCanc	1.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1649	ALL	484812.5	3718263	1.32E-08	0.67YrCanc	1.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1650	ALL	484837.5	3718263	1.25E-08	0.67YrCanc	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1651	ALL	484862.5	3718263	1.19E-08	0.67YrCanc	1.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1652	ALL	483412.5	3718288	1.09E-08	0.67YrCanc	1.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1653	ALL	483437.5	3718288	1.14E-08	0.67YrCanc	1.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1654	ALL	484212.5	3718288	3.27E-08	0.67YrCanc	3.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1655	ALL	484512.5	3718288	2.38E-08	0.67YrCanc	2.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1656	ALL	484537.5	3718288	2.27E-08	0.67YrCanc	2.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1657	ALL	484562.5	3718288	2.17E-08	0.67YrCanc	2.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1658	ALL	484587.5	3718288	2.06E-08	0.67YrCanc	2.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1659	ALL	484612.5	3718288	1.96E-08	0.67YrCanc	1.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1660	ALL	484637.5	3718288	1.87E-08	0.67YrCanc	1.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1661	ALL	484662.5	3718288	1.77E-08	0.67YrCanc	1.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1662	ALL	484687.5	3718288	1.68E-08	0.67YrCanc	1.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1663	ALL	484712.5	3718288	1.60E-08	0.67YrCanc	1.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1664	ALL	484737.5	3718288	1.52E-08	0.67YrCanc	1.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1665	ALL	484762.5	3718288	1.44E-08	0.67YrCanc	1.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1666	ALL	484787.5	3718288	1.37E-08	0.67YrCanc	1.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1667	ALL	484812.5	3718288	1.31E-08	0.67YrCanc	1.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1668	ALL	484837.5	3718288	1.25E-08	0.67YrCanc	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1669	ALL	484862.5	3718288	1.19E-08	0.67YrCanc	1.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1670	ALL	483412.5	3718313	1.06E-08	0.67YrCanc	1.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1671	ALL	483437.5	3718313	1.11E-08	0.67YrCanc	1.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1672	ALL	484187.5	3718313	2.93E-08	0.67YrCanc	2.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1673	ALL	483412.5	3718338	1.04E-08	0.67YrCanc	1.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1674	ALL	483437.5	3718338	1.09E-08	0.67YrCanc	1.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1675	ALL	484187.5	3718338	2.63E-08	0.67YrCanc	2.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1676	ALL	483412.5	3718413	9.57E-09	0.67YrCanc	9.57E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1677	ALL	483437.5	3718413	1.01E-08	0.67YrCanc	1.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1678	ALL	483412.5	3718438	9.28E-09	0.67YrCanc	9.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1679	ALL	483437.5	3718438	9.82E-09	0.67YrCanc	9.82E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1680	ALL	484462.5	3718463	1.65E-08	0.67YrCanc	1.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1681	ALL	484487.5	3718463	1.62E-08	0.67YrCanc	1.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1682	ALL	484462.5	3718488	1.55E-08	0.67YrCanc	1.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1683	ALL	484487.5	3718488	1.53E-08	0.67YrCanc	1.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

rCancerHRAInput.hra

HARP2 - HRACalc (dated 19044) 4/23/2020 3:07:20 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: Cancer
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 0.67

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 0.67
2<9 Years Bin: 0
2<16 Years Bin: 0
16<30 Years Bin: 0
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: LongTerm24HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: ON

****
SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.02
Soil mixing depth (m): 0.01
Dermal climate: Mixed

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed
Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to:
C:\Users\swang\Documents\1. Projects\10773 Retail Development Advisors - Murrieta EIR\HRA\HARP2\CurciConstMit\hra\CurciMit0.67yrCancerCancerRisk.csv
Cancer risk total by receptor saved to: C:\Users\swang\Documents\1. Projects\10773 Retail Development Advisors - Murrieta EIR\HRA\HARP2\CurciConstMit\hra\CurciMit0.67yrCancerCancerRiskSumByRec.csv
HRA ran successfully

*HARP - HRACalc v19044 4/23/2020 3:07:01 PM - Chronic Risk - Input File: C:\Users\swang\Documents\1. Projects\10773 Retail Development Advisors - Murrieta EIR\HRA\HARP2\CurciConstMit\hra\CurciMitChronicHRAInput.hra

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE\	RESP	SKIN	EYE	BONE/TEET	ENDO	BLOOD	ODOR	GENERAL	MAXHI
1	ALL		481950	3715450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-06
2	ALL		482050	3715450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-06
3	ALL		482150	3715450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-06
4	ALL		482250	3715450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-06
5	ALL		482350	3715450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-06
6	ALL		482450	3715450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-06
7	ALL		482550	3715450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-06
8	ALL		482650	3715450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-06
9	ALL		482750	3715450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-06
10	ALL		482850	3715450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-06
11	ALL		482950	3715450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-06
12	ALL		483050	3715450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-06
13	ALL		483150	3715450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-06
14	ALL		483250	3715450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-06
15	ALL		483350	3715450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-06
16	ALL		483450	3715450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-06
17	ALL		483550	3715450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-06
18	ALL		483650	3715450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-06
19	ALL		483750	3715450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-06
20	ALL		483850	3715450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-06
21	ALL		483950	3715450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-06
22	ALL		484050	3715450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-06
23	ALL		484150	3715450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-06
24	ALL		484250	3715450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-06
25	ALL		484350	3715450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-06
26	ALL		484450	3715450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-06
27	ALL		481950	3715550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-06
28	ALL		482050	3715550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-06
29	ALL		482150	3715550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-06
30	ALL		482250	3715550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-06
31	ALL		482350	3715550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-06
32	ALL		482550	3715550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-06
33	ALL		482650	3715550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-06
34	ALL		482750	3715550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-06
35	ALL		482850	3715550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-06
36	ALL		482950	3715550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-06
37	ALL		483050	3715550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-06
38	ALL		483150	3715550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-06
39	ALL		483250	3715550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-06
40	ALL		483350	3715550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-06
41	ALL		483450	3715550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-06
42	ALL		483550	3715550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-06
43	ALL		483650	3715550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-06
44	ALL		483750	3715550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-06
45	ALL		483850	3715550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-06
46	ALL		483950	3715550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-06
47	ALL		484050	3715550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-06
48	ALL		484250	3715550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-06
49	ALL		484350	3715550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-06
50	ALL		484450	3715550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-06
51	ALL		484550	3715550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-06
52	ALL		484950	3715550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.19E-06
53	ALL		485050	3715550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-06
54	ALL		481950	3715650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-06
55	ALL		482050	3715650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-06
56	ALL		482150	3715650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-06
57	ALL		482250	3715650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-06
58	ALL		482350	3715650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-06
59	ALL		482450	3715650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-06
60	ALL		482650	3715650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-06
61	ALL		482750	3715650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-06
62	ALL		482850	3715650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-06
63	ALL		482950	3715650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-06
64	ALL		483050	3715650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-06
65	ALL		483150	3715650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-06
66	ALL		483250	3715650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-06
67	ALL		483350	3715650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-06
68	ALL		483450	3715650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-06
69	ALL		483550	3715650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-06
70	ALL		483650	3715650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-06
71	ALL		483750	3715650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-06
72	ALL		483850	3715650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-06
73	ALL		483950	3715650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E-06
74	ALL		484050	3715650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-06
75	ALL		484150	3715650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E-06
76	ALL		484350	3715650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-06
77	ALL		484450	3715650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-06
78	ALL		484550	3715650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-06
79	ALL		484650	3715650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-06
80	ALL		484750	3715650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.16E-06
81	ALL		484950	3715650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.19E-06
82	ALL		485050	3715650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-06
83	ALL		481950	3715750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-06
84	ALL		482050	3715750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-06
85	ALL		482150	3715750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-06
86	ALL		482250	3715750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-06
87	ALL		482350	3715750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-06
88	ALL		482450	3715750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-06
89	ALL		482550	3715750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-06
90	ALL		482750	3715750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-06
91	ALL		482850	3715750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-06
92	ALL		482950	3715750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-06
93	ALL		483050	3715750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-06
94	ALL		483150	3715750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-06
95	ALL		483250	3715750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-06
96	ALL		483350	3715750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-06
97	ALL		483450	3715750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

100	ALL	483750	3715750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-06
101	ALL	483850	3715750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-06
102	ALL	483950	3715750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-06
103	ALL	484050	3715750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-06
104	ALL	484150	3715750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-06
105	ALL	484250	3715750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-06
106	ALL	484550	3715750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-06
107	ALL	484650	3715750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-06
108	ALL	484750	3715750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-06
109	ALL	484850	3715750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-06
110	ALL	484950	3715750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-06
111	ALL	485050	3715750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-06
112	ALL	481950	3715850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-06
113	ALL	482050	3715850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-06
114	ALL	482150	3715850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-06
115	ALL	482250	3715850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-06
116	ALL	482350	3715850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-06
117	ALL	482450	3715850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-06
118	ALL	482550	3715850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-06
119	ALL	482650	3715850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-06
120	ALL	482750	3715850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-06
121	ALL	482850	3715850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-06
122	ALL	482950	3715850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-06
123	ALL	483050	3715850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-06
124	ALL	483150	3715850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-06
125	ALL	483350	3715850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-06
126	ALL	483450	3715850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-06
127	ALL	483550	3715850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-06
128	ALL	483650	3715850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-06
129	ALL	483750	3715850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-06
130	ALL	483850	3715850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-06
131	ALL	483950	3715850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.64E-06
132	ALL	484050	3715850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-06
133	ALL	484150	3715850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-06
134	ALL	484250	3715850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.69E-06
135	ALL	484550	3715850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-06
136	ALL	484650	3715850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-06
137	ALL	484750	3715850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-06
138	ALL	484850	3715850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-06
139	ALL	485150	3715850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-06
140	ALL	485250	3715850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-06
141	ALL	481950	3715950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-06
142	ALL	482050	3715950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-06
143	ALL	482150	3715950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-06
144	ALL	482250	3715950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-06
145	ALL	482350	3715950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-06
146	ALL	482450	3715950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-06
147	ALL	482550	3715950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-06
148	ALL	482650	3715950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-06
149	ALL	482750	3715950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-06
150	ALL	482850	3715950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-06
151	ALL	482950	3715950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-06
152	ALL	483050	3715950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.06E-06
153	ALL	483350	3715950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-06
154	ALL	483450	3715950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-06
155	ALL	483550	3715950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-06
156	ALL	483650	3715950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.76E-06
157	ALL	483750	3715950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-06
158	ALL	483850	3715950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-06
159	ALL	483950	3715950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-06
160	ALL	484050	3715950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-06
161	ALL	484150	3715950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-06
162	ALL	484250	3715950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-06
163	ALL	484850	3715950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-06
164	ALL	485150	3715950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-06
165	ALL	485250	3715950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-06
166	ALL	481950	3716050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-06
167	ALL	482050	3716050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-06
168	ALL	482150	3716050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-06
169	ALL	482250	3716050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-06
170	ALL	482350	3716050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-06
171	ALL	482450	3716050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-06
172	ALL	482550	3716050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-06
173	ALL	482650	3716050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-06
174	ALL	482750	3716050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-06
175	ALL	482850	3716050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-06
176	ALL	482950	3716050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-06
177	ALL	483050	3716050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-06
178	ALL	483150	3716050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-06
179	ALL	483350	3716050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-06
180	ALL	483450	3716050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.89E-06
181	ALL	483550	3716050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.00E-06
182	ALL	483650	3716050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.09E-06
183	ALL	483750	3716050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.24E-06
184	ALL	483850	3716050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.34E-06
185	ALL	483950	3716050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E-06
186	ALL	484050	3716050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.42E-06
187	ALL	484150	3716050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.48E-06
188	ALL	484250	3716050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.45E-06
189	ALL	484450	3716050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.36E-06
190	ALL	484750	3716050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.20E-06
191	ALL	484850	3716050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.12E-06
192	ALL	485050	3716050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.96E-06
193	ALL	485150	3716050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.89E-06
194	ALL	485250	3716050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.88E-06
195	ALL	485350	3716050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-06
196	ALL	485450	3716050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-06
197	ALL	481950	3716150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-06
198	ALL	482050	3716150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00

201	ALL	482350	3716150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-06
202	ALL	482450	3716150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-06
203	ALL	482550	3716150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-06
204	ALL	482650	3716150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-06
205	ALL	482750	3716150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-06
206	ALL	482850	3716150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-06
207	ALL	482950	3716150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.33E-06
208	ALL	483050	3716150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-06
209	ALL	483150	3716150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-06
210	ALL	483450	3716150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.23E-06
211	ALL	483550	3716150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E-06
212	ALL	483650	3716150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-06
213	ALL	483750	3716150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.66E-06
214	ALL	483850	3716150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-06
215	ALL	483950	3716150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.86E-06
216	ALL	484150	3716150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.94E-06
217	ALL	484250	3716150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.92E-06
218	ALL	484350	3716150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.90E-06
219	ALL	484450	3716150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.83E-06
220	ALL	484850	3716150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.48E-06
221	ALL	484950	3716150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.38E-06
222	ALL	485150	3716150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-06
223	ALL	485250	3716150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.04E-06
224	ALL	485350	3716150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.93E-06
225	ALL	485450	3716150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-06
226	ALL	481950	3716250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-06
227	ALL	482050	3716250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-06
228	ALL	482150	3716250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-06
229	ALL	482250	3716250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-06
230	ALL	482350	3716250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-06
231	ALL	482450	3716250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-06
232	ALL	482550	3716250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-06
233	ALL	482650	3716250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-06
234	ALL	482750	3716250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-06
235	ALL	482850	3716250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-06
236	ALL	482950	3716250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-06
237	ALL	483050	3716250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.77E-06
238	ALL	483150	3716250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-06
239	ALL	483450	3716250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.61E-06
240	ALL	483550	3716250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.81E-06
241	ALL	483650	3716250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.98E-06
242	ALL	483750	3716250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.14E-06
243	ALL	483850	3716250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.27E-06
244	ALL	483950	3716250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.36E-06
245	ALL	484150	3716250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-06
246	ALL	484850	3716250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.93E-06
247	ALL	484950	3716250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.81E-06
248	ALL	485050	3716250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.61E-06
249	ALL	485150	3716250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.47E-06
250	ALL	485250	3716250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.34E-06
251	ALL	485350	3716250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.21E-06
252	ALL	481950	3716350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-06
253	ALL	482050	3716350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-06
254	ALL	482150	3716350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-06
255	ALL	482250	3716350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-06
256	ALL	482350	3716350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-06
257	ALL	482450	3716350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-06
258	ALL	482550	3716350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-06
259	ALL	482650	3716350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-06
260	ALL	482750	3716350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-06
261	ALL	482850	3716350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-06
262	ALL	482950	3716350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.84E-06
263	ALL	483050	3716350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-06
264	ALL	483150	3716350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.32E-06
265	ALL	483450	3716350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.06E-06
266	ALL	483550	3716350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.30E-06
267	ALL	483650	3716350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.51E-06
268	ALL	483750	3716350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.71E-06
269	ALL	483850	3716350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-06
270	ALL	483950	3716350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-06
271	ALL	484850	3716350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.39E-06
272	ALL	484950	3716350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.30E-06
273	ALL	481950	3716450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-06
274	ALL	482550	3716450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-06
275	ALL	482650	3716450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-06
276	ALL	482750	3716450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.64E-06
277	ALL	482850	3716450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-06
278	ALL	482950	3716450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.14E-06
279	ALL	483050	3716450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.43E-06
280	ALL	483150	3716450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.71E-06
281	ALL	483450	3716450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.60E-06
282	ALL	483550	3716450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.89E-06
283	ALL	483650	3716450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.14E-06
284	ALL	483750	3716450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.38E-06
285	ALL	483850	3716450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.60E-06
286	ALL	483950	3716450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.75E-06
287	ALL	484050	3716450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.85E-06
288	ALL	485150	3716450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.32E-06
289	ALL	482650	3716550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.69E-06
290	ALL	482750	3716550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-06
291	ALL	482850	3716550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.15E-06
292	ALL	482950	3716550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.51E-06
293	ALL	483450	3716550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.22E-06
294	ALL	483550	3716550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.60E-06
295	ALL	483650	3716550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.90E-06
296	ALL	483750	3716550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.24E-06
297	ALL	483850	3716550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.50E-06
298	ALL	483950	3716550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.70E-06
299	ALL	484050	3716550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00

302	ALL	485150	3716550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.89E-06
303	ALL	482850	3716650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.46E-06
304	ALL	482950	3716650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-06
305	ALL	483450	3716650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.88E-06
306	ALL	483550	3716650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.39E-06
307	ALL	483650	3716650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.86E-06
308	ALL	483750	3716650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.31E-06
309	ALL	483850	3716650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.60E-06
310	ALL	483950	3716650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.89E-06
311	ALL	484050	3716650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05
312	ALL	485250	3716650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-06
313	ALL	481950	3716750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-06
314	ALL	482650	3716750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.23E-06
315	ALL	482750	3716750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-06
316	ALL	482850	3716750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.81E-06
317	ALL	482950	3716750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.26E-06
318	ALL	483050	3716750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.69E-06
319	ALL	483150	3716750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.23E-06
320	ALL	483450	3716750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.74E-06
321	ALL	483550	3716750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.41E-06
322	ALL	483650	3716750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05
323	ALL	483750	3716750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05
324	ALL	483850	3716750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05
325	ALL	483950	3716750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05
326	ALL	484050	3716750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-05
327	ALL	485150	3716750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.62E-06
328	ALL	485250	3716750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.16E-06
329	ALL	485350	3716750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E-06
330	ALL	485450	3716750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.30E-06
331	ALL	485550	3716750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.96E-06
332	ALL	485650	3716750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.51E-06
333	ALL	481950	3716850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-06
334	ALL	482050	3716850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-06
335	ALL	482150	3716850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-06
336	ALL	482650	3716850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-06
337	ALL	482750	3716850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-06
338	ALL	482850	3716850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.22E-06
339	ALL	482950	3716850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E-06
340	ALL	483050	3716850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.33E-06
341	ALL	483150	3716850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.84E-06
342	ALL	483250	3716850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.37E-06
343	ALL	484050	3716850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05
344	ALL	485550	3716850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.10E-06
345	ALL	485650	3716850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.63E-06
346	ALL	481950	3716950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-06
347	ALL	482050	3716950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-06
348	ALL	482150	3716950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-06
349	ALL	482250	3716950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-06
350	ALL	482350	3716950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-06
351	ALL	482450	3716950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.87E-06
352	ALL	483150	3716950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.49E-06
353	ALL	483250	3716950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-06
354	ALL	485550	3716950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.18E-06
355	ALL	485650	3716950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.72E-06
356	ALL	481950	3717050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-06
357	ALL	482050	3717050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-06
358	ALL	482150	3717050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-06
359	ALL	482250	3717050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-06
360	ALL	482350	3717050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-06
361	ALL	482450	3717050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.02E-06
362	ALL	482550	3717050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.38E-06
363	ALL	482650	3717050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.81E-06
364	ALL	482850	3717050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-06
365	ALL	482950	3717050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.65E-06
366	ALL	483250	3717050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05
367	ALL	485350	3717050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.46E-06
368	ALL	485450	3717050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-06
369	ALL	485550	3717050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.29E-06
370	ALL	485650	3717050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.79E-06
371	ALL	486250	3717050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-06
372	ALL	481950	3717150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-06
373	ALL	482050	3717150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-06
374	ALL	482150	3717150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-06
375	ALL	482250	3717150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-06
376	ALL	482350	3717150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-06
377	ALL	482450	3717150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.18E-06
378	ALL	482550	3717150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-06
379	ALL	482650	3717150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.03E-06
380	ALL	482750	3717150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.57E-06
381	ALL	482850	3717150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.17E-06
382	ALL	482950	3717150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.93E-06
383	ALL	483050	3717150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.94E-06
384	ALL	485350	3717150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.66E-06
385	ALL	485450	3717150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.97E-06
386	ALL	485550	3717150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.33E-06
387	ALL	485650	3717150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.83E-06
388	ALL	481950	3717250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-06
389	ALL	482050	3717250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-06
390	ALL	482150	3717250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-06
391	ALL	482250	3717250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-06
392	ALL	482350	3717250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-06
393	ALL	482450	3717250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.30E-06
394	ALL	482550	3717250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.72E-06
395	ALL	482650	3717250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.23E-06
396	ALL	482750	3717250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.85E-06
397	ALL	482850	3717250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.52E-06
398	ALL	482950	3717250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.30E-06
399	ALL	483050	3717250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.34E-06
400	ALL	483150	3717250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00

403	ALL	483450	3717250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05
404	ALL	483850	3717250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-05
405	ALL	483950	3717250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-05
406	ALL	486150	3717250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-06
407	ALL	486250	3717250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-06
408	ALL	481950	3717350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-06
409	ALL	482050	3717350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E-06
410	ALL	482150	3717350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-06
411	ALL	482250	3717350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-06
412	ALL	482350	3717350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-06
413	ALL	482450	3717350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E-06
414	ALL	482550	3717350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.87E-06
415	ALL	482650	3717350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.43E-06
416	ALL	482750	3717350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.09E-06
417	ALL	482850	3717350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.82E-06
418	ALL	482950	3717350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.68E-06
419	ALL	483050	3717350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.84E-06
420	ALL	483150	3717350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05
421	ALL	483250	3717350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05
422	ALL	483350	3717350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-05
423	ALL	483450	3717350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05
424	ALL	483850	3717350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-05
425	ALL	483950	3717350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-05
426	ALL	484050	3717350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-05
427	ALL	484650	3717350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05
428	ALL	484750	3717350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05
429	ALL	486050	3717350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-06
430	ALL	486150	3717350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-06
431	ALL	486250	3717350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-06
432	ALL	481950	3717450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-06
433	ALL	482050	3717450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-06
434	ALL	482150	3717450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-06
435	ALL	482250	3717450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.78E-06
436	ALL	482350	3717450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.12E-06
437	ALL	482450	3717450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.53E-06
438	ALL	482750	3717450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.32E-06
439	ALL	482850	3717450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.10E-06
440	ALL	482950	3717450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.05E-06
441	ALL	483050	3717450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05
442	ALL	483150	3717450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05
443	ALL	483250	3717450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05
444	ALL	483350	3717450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05
445	ALL	483450	3717450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05
446	ALL	483550	3717450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-05
447	ALL	483850	3717450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.65E-05
448	ALL	483950	3717450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.69E-05
449	ALL	484050	3717450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.38E-05
450	ALL	484550	3717450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-05
451	ALL	484650	3717450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-05
452	ALL	484750	3717450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05
453	ALL	481950	3717550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-06
454	ALL	482050	3717550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-06
455	ALL	482150	3717550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-06
456	ALL	482250	3717550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-06
457	ALL	482350	3717550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-06
458	ALL	482450	3717550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.64E-06
459	ALL	482750	3717550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.48E-06
460	ALL	482850	3717550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.31E-06
461	ALL	482950	3717550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.31E-06
462	ALL	483050	3717550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05
463	ALL	483250	3717550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-05
464	ALL	483350	3717550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-05
465	ALL	483450	3717550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-05
466	ALL	483550	3717550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-05
467	ALL	483950	3717550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-04
468	ALL	484050	3717550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-04
469	ALL	485850	3717550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-06
470	ALL	485950	3717550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.75E-06
471	ALL	481950	3717650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-06
472	ALL	482050	3717650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-06
473	ALL	482150	3717650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-06
474	ALL	482250	3717650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.93E-06
475	ALL	482350	3717650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.30E-06
476	ALL	482450	3717650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-06
477	ALL	482550	3717650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.25E-06
478	ALL	482650	3717650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.84E-06
479	ALL	482750	3717650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.59E-06
480	ALL	482850	3717650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.45E-06
481	ALL	482950	3717650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.55E-06
482	ALL	483350	3717650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05
483	ALL	484550	3717650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-05
484	ALL	484650	3717650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-05
485	ALL	484750	3717650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-05
486	ALL	484850	3717650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05
487	ALL	485150	3717650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05
488	ALL	485450	3717650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.18E-06
489	ALL	485550	3717650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.54E-06
490	ALL	482250	3717750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-06
491	ALL	482350	3717750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-06
492	ALL	482450	3717750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.55E-06
493	ALL	482550	3717750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.10E-06
494	ALL	482650	3717750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.78E-06
495	ALL	482750	3717750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.67E-06
496	ALL	482850	3717750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.55E-06
497	ALL	482950	3717750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.71E-06
498	ALL	484550	3717750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-05
499	ALL	484650	3717750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-05
500	ALL	484750	3717750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05
501	ALL	484850	3717750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00

504	ALL	485550	3717750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.55E-06
505	ALL	485650	3717750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.01E-06
506	ALL	485750	3717750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.52E-06
507	ALL	485850	3717750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.11E-06
508	ALL	485950	3717750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.76E-06
509	ALL	486050	3717750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-06
510	ALL	482250	3717850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.76E-06
511	ALL	482650	3717850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.57E-06
512	ALL	482750	3717850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.50E-06
513	ALL	482850	3717850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.58E-06
514	ALL	482950	3717850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.73E-06
515	ALL	483350	3717850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05
516	ALL	483450	3717850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-05
517	ALL	484550	3717850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.23E-05
518	ALL	484650	3717850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-05
519	ALL	484750	3717850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05
520	ALL	484850	3717850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05
521	ALL	484950	3717850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-05
522	ALL	485150	3717850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05
523	ALL	485250	3717850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.22E-06
524	ALL	485450	3717850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.32E-06
525	ALL	485550	3717850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.64E-06
526	ALL	485650	3717850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.06E-06
527	ALL	485750	3717850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-06
528	ALL	485850	3717850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-06
529	ALL	485950	3717850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.82E-06
530	ALL	486050	3717850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-06
531	ALL	481950	3717950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-06
532	ALL	482250	3717950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-06
533	ALL	482350	3717950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-06
534	ALL	482750	3717950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.20E-06
535	ALL	483350	3717950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05
536	ALL	483450	3717950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-05
537	ALL	483550	3717950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-05
538	ALL	484550	3717950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-05
539	ALL	484650	3717950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-05
540	ALL	484750	3717950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-05
541	ALL	484850	3717950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05
542	ALL	484950	3717950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05
543	ALL	485350	3717950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.30E-06
544	ALL	485450	3717950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-06
545	ALL	485550	3717950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E-06
546	ALL	485650	3717950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.11E-06
547	ALL	485750	3717950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.60E-06
548	ALL	485850	3717950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.21E-06
549	ALL	485950	3717950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-06
550	ALL	486050	3717950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-06
551	ALL	481950	3718050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-06
552	ALL	482050	3718050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-06
553	ALL	482750	3718050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E-06
554	ALL	482850	3718050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.10E-06
555	ALL	482950	3718050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.04E-06
556	ALL	483050	3718050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05
557	ALL	483150	3718050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-05
558	ALL	483250	3718050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-05
559	ALL	483350	3718050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05
560	ALL	483450	3718050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-05
561	ALL	483550	3718050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-05
562	ALL	483650	3718050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.84E-05
563	ALL	484550	3718050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-05
564	ALL	484650	3718050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-05
565	ALL	485450	3718050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-06
566	ALL	485550	3718050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-06
567	ALL	485650	3718050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.16E-06
568	ALL	485750	3718050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.64E-06
569	ALL	485850	3718050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-06
570	ALL	485950	3718050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.87E-06
571	ALL	486050	3718050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.55E-06
572	ALL	481950	3718150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-06
573	ALL	482050	3718150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-06
574	ALL	482150	3718150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-06
575	ALL	482250	3718150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-06
576	ALL	482350	3718150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.39E-06
577	ALL	482650	3718150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.10E-06
578	ALL	482750	3718150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.89E-06
579	ALL	482850	3718150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.31E-06
580	ALL	482950	3718150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.21E-06
581	ALL	483050	3718150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.49E-06
582	ALL	483150	3718150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05
583	ALL	483350	3718150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-05
584	ALL	483450	3718150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-05
585	ALL	483550	3718150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-05
586	ALL	483650	3718150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-05
587	ALL	484550	3718150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-05
588	ALL	484650	3718150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-05
589	ALL	485250	3718150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.78E-06
590	ALL	485550	3718150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-06
591	ALL	485650	3718150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.24E-06
592	ALL	485750	3718150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.71E-06
593	ALL	481950	3718250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-06
594	ALL	482050	3718250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-06
595	ALL	482150	3718250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-06
596	ALL	482250	3718250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-06
597	ALL	482350	3718250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-06
598	ALL	482450	3718250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.82E-06
599	ALL	482550	3718250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.28E-06
600	ALL	482650	3718250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.94E-06
601	ALL	482750	3718250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.55E-06
602	ALL	482850	3718250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00

605	ALL	484550	3718250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-05
606	ALL	484650	3718250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-05
607	ALL	484750	3718250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05
608	ALL	484850	3718250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05
609	ALL	485150	3718250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-05
610	ALL	485250	3718250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05
611	ALL	485650	3718250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.36E-06
612	ALL	481950	3718350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-06
613	ALL	482050	3718350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-06
614	ALL	482150	3718350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-06
615	ALL	482250	3718350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-06
616	ALL	482350	3718350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-06
617	ALL	482450	3718350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-06
618	ALL	482550	3718350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.14E-06
619	ALL	482650	3718350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.66E-06
620	ALL	482750	3718350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.24E-06
621	ALL	483150	3718350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.88E-06
622	ALL	483450	3718350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05
623	ALL	485250	3718350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05
624	ALL	485350	3718350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.93E-06
625	ALL	485550	3718350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.08E-06
626	ALL	485650	3718350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.49E-06
627	ALL	486150	3718350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.33E-06
628	ALL	486250	3718350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-06
629	ALL	481950	3718450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-06
630	ALL	482050	3718450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-06
631	ALL	482150	3718450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-06
632	ALL	482250	3718450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-06
633	ALL	482350	3718450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.06E-06
634	ALL	482450	3718450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-06
635	ALL	482550	3718450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-06
636	ALL	482650	3718450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.46E-06
637	ALL	482750	3718450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.00E-06
638	ALL	482850	3718450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.36E-06
639	ALL	483350	3718450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05
640	ALL	484450	3718450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-05
641	ALL	485150	3718450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-05
642	ALL	485250	3718450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05
643	ALL	485350	3718450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.04E-06
644	ALL	485750	3718450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.96E-06
645	ALL	485850	3718450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E-06
646	ALL	485950	3718450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.01E-06
647	ALL	486050	3718450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.69E-06
648	ALL	481950	3718550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-06
649	ALL	482050	3718550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-06
650	ALL	482150	3718550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-06
651	ALL	482250	3718550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-06
652	ALL	482350	3718550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-06
653	ALL	482450	3718550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-06
654	ALL	482550	3718550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-06
655	ALL	482650	3718550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.21E-06
656	ALL	482750	3718550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.87E-06
657	ALL	482850	3718550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.36E-06
658	ALL	482950	3718550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.86E-06
659	ALL	483550	3718550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05
660	ALL	484650	3718550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05
661	ALL	484750	3718550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05
662	ALL	484850	3718550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05
663	ALL	485850	3718550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.52E-06
664	ALL	485950	3718550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.11E-06
665	ALL	482050	3718650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-06
666	ALL	482150	3718650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-06
667	ALL	482250	3718650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-06
668	ALL	482350	3718650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-06
669	ALL	482450	3718650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-06
670	ALL	482550	3718650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-06
671	ALL	482650	3718650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.15E-06
672	ALL	482750	3718650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.68E-06
673	ALL	482850	3718650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.33E-06
674	ALL	482950	3718650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.05E-06
675	ALL	485150	3718650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05
676	ALL	485450	3718650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.05E-06
677	ALL	485550	3718650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.28E-06
678	ALL	485650	3718650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.59E-06
679	ALL	485850	3718650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.63E-06
680	ALL	485950	3718650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.14E-06
681	ALL	486050	3718650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.82E-06
682	ALL	482050	3718750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-06
683	ALL	482150	3718750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-06
684	ALL	482250	3718750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-06
685	ALL	482350	3718750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-06
686	ALL	482450	3718750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-06
687	ALL	482550	3718750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-06
688	ALL	482650	3718750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-06
689	ALL	482750	3718750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.61E-06
690	ALL	482850	3718750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.24E-06
691	ALL	482950	3718750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.87E-06
692	ALL	483050	3718750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.63E-06
693	ALL	484950	3718750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05
694	ALL	485050	3718750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05
695	ALL	485150	3718750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05
696	ALL	485850	3718750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.68E-06
697	ALL	485950	3718750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.23E-06
698	ALL	486050	3718750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-06
699	ALL	482350	3718850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-06
700	ALL	482450	3718850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.19E-06
701	ALL	482550	3718850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-06
702	ALL	482650	3718850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-06
703	ALL	482750	3718850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00

706	ALL	483050	3718850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.29E-06
707	ALL	483150	3718850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.73E-06
708	ALL	484150	3718850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05
709	ALL	484250	3718850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05
710	ALL	485350	3718850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.29E-06
711	ALL	485450	3718850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.66E-06
712	ALL	485750	3718850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.09E-06
713	ALL	485850	3718850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.65E-06
714	ALL	485950	3718850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.28E-06
715	ALL	486050	3718850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.87E-06
716	ALL	482450	3718950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-06
717	ALL	482550	3718950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-06
718	ALL	482650	3718950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-06
719	ALL	482750	3718950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.40E-06
720	ALL	482850	3718950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-06
721	ALL	482950	3718950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.38E-06
722	ALL	483050	3718950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.85E-06
723	ALL	483150	3718950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.35E-06
724	ALL	483250	3718950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.63E-06
725	ALL	485750	3718950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.08E-06
726	ALL	485850	3718950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.65E-06
727	ALL	485950	3718950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.23E-06
728	ALL	486050	3718950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-06
729	ALL	482250	3719050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-06
730	ALL	482350	3719050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-06
731	ALL	482450	3719050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-06
732	ALL	482550	3719050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-06
733	ALL	482650	3719050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.84E-06
734	ALL	482850	3719050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.65E-06
735	ALL	482950	3719050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.03E-06
736	ALL	483050	3719050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.44E-06
737	ALL	483150	3719050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.79E-06
738	ALL	483250	3719050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.05E-06
739	ALL	483350	3719050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.18E-06
740	ALL	483450	3719050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.27E-06
741	ALL	483550	3719050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.32E-06
742	ALL	485250	3719050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.73E-06
743	ALL	485450	3719050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.99E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.99E-06
744	ALL	485550	3719050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.60E-06
745	ALL	485650	3719050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.25E-06
746	ALL	485750	3719050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.92E-06
747	ALL	482350	3719150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-06
748	ALL	482650	3719150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.72E-06
749	ALL	482850	3719150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-06
750	ALL	483050	3719150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.04E-06
751	ALL	483150	3719150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.28E-06
752	ALL	483250	3719150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.48E-06
753	ALL	483350	3719150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.59E-06
754	ALL	483450	3719150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.66E-06
755	ALL	483550	3719150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.68E-06
756	ALL	485250	3719150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.21E-06
757	ALL	485550	3719150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.32E-06
758	ALL	485650	3719150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.03E-06
759	ALL	485950	3719150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-06
760	ALL	484550	3719250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.34E-06
761	ALL	484750	3719250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.23E-06
762	ALL	484850	3719250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.16E-06
763	ALL	484750	3719350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.60E-06
764	ALL	484850	3719350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.53E-06
765	ALL	484950	3719350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.45E-06
766	ALL	485050	3719350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.37E-06
767	ALL	485150	3719350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.27E-06
768	ALL	484250	3719450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E-06
769	ALL	484350	3719450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.12E-06
770	ALL	484450	3719450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.17E-06
771	ALL	484550	3719450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.15E-06
772	ALL	484650	3719450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.10E-06
773	ALL	484750	3719450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.06E-06
774	ALL	484850	3719450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.01E-06
775	ALL	484950	3719450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.96E-06
776	ALL	485050	3719450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.90E-06
777	ALL	485150	3719450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.81E-06
778	ALL	485250	3719450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-06
779	ALL	485350	3719450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.64E-06
780	ALL	485450	3719450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-06
781	ALL	485550	3719450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.38E-06
782	ALL	484250	3719550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.48E-06
783	ALL	484350	3719550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.58E-06
784	ALL	484450	3719550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.67E-06
785	ALL	484550	3719550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.69E-06
786	ALL	484650	3719550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.66E-06
787	ALL	484750	3719550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.60E-06
788	ALL	484850	3719550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-06
789	ALL	484950	3719550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.53E-06
790	ALL	485050	3719550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.46E-06
791	ALL	485150	3719550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.40E-06
792	ALL	485250	3719550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-06
793	ALL	485350	3719550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.28E-06
794	ALL	485450	3719550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.19E-06
795	ALL	485550	3719550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-06
796	ALL	484450	3719850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.60E-06
797	ALL	484550	3719850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-06
798	ALL	484650	3719850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.60E-06
799	ALL	484350	3719950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-06
800	ALL	484450	3719950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-06
801	ALL	484550	3719950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-06
802	ALL	484650	3719950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-06
803	ALL	483837.5	3717213	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-05
804	ALL	483862.5	3717213	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.

807	ALL	483812.5	3717238	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05
808	ALL	483837.5	3717238	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-05
809	ALL	483862.5	3717238	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-05
810	ALL	483887.5	3717238	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-05
811	ALL	483912.5	3717238	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-05
812	ALL	483937.5	3717238	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-05
813	ALL	483412.5	3717263	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-05
814	ALL	483437.5	3717263	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05
815	ALL	483462.5	3717263	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05
816	ALL	483812.5	3717263	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-05
817	ALL	483837.5	3717263	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-05
818	ALL	483862.5	3717263	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-05
819	ALL	483887.5	3717263	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-05
820	ALL	483912.5	3717263	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-05
821	ALL	483937.5	3717263	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-05
822	ALL	483962.5	3717263	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-05
823	ALL	483987.5	3717263	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-05
824	ALL	483412.5	3717288	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-05
825	ALL	483437.5	3717288	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05
826	ALL	483462.5	3717288	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05
827	ALL	483487.5	3717288	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05
828	ALL	483812.5	3717288	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-05
829	ALL	483837.5	3717288	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-05
830	ALL	483862.5	3717288	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-05
831	ALL	483887.5	3717288	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-05
832	ALL	483912.5	3717288	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-05
833	ALL	483937.5	3717288	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-05
834	ALL	483962.5	3717288	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-05
835	ALL	483987.5	3717288	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-05
836	ALL	484012.5	3717288	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.19E-05
837	ALL	483412.5	3717313	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05
838	ALL	483437.5	3717313	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05
839	ALL	483462.5	3717313	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-05
840	ALL	483487.5	3717313	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05
841	ALL	483512.5	3717313	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05
842	ALL	483787.5	3717313	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-05
843	ALL	483812.5	3717313	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-05
844	ALL	483837.5	3717313	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-05
845	ALL	483862.5	3717313	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-05
846	ALL	483887.5	3717313	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-05
847	ALL	483912.5	3717313	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-05
848	ALL	483937.5	3717313	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-05
849	ALL	483962.5	3717313	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-05
850	ALL	483987.5	3717313	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-05
851	ALL	484012.5	3717313	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-05
852	ALL	484037.5	3717313	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-05
853	ALL	484562.5	3717313	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-05
854	ALL	484587.5	3717313	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05
855	ALL	484612.5	3717313	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-05
856	ALL	484637.5	3717313	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05
857	ALL	484662.5	3717313	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05
858	ALL	484687.5	3717313	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05
859	ALL	484712.5	3717313	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05
860	ALL	484737.5	3717313	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05
861	ALL	484762.5	3717313	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-05
862	ALL	483412.5	3717338	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-05
863	ALL	483437.5	3717338	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05
864	ALL	483462.5	3717338	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05
865	ALL	483487.5	3717338	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05
866	ALL	483512.5	3717338	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-05
867	ALL	483537.5	3717338	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05
868	ALL	483787.5	3717338	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-05
869	ALL	483812.5	3717338	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-05
870	ALL	483837.5	3717338	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E-05
871	ALL	483862.5	3717338	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-05
872	ALL	483887.5	3717338	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-05
873	ALL	483912.5	3717338	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-05
874	ALL	483937.5	3717338	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.82E-05
875	ALL	483962.5	3717338	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-05
876	ALL	483987.5	3717338	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.07E-05
877	ALL	484012.5	3717338	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.15E-05
878	ALL	484037.5	3717338	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.19E-05
879	ALL	484562.5	3717338	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-05
880	ALL	484587.5	3717338	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-05
881	ALL	484612.5	3717338	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05
882	ALL	484637.5	3717338	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05
883	ALL	484662.5	3717338	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05
884	ALL	484687.5	3717338	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05
885	ALL	484712.5	3717338	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05
886	ALL	484737.5	3717338	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05
887	ALL	484762.5	3717338	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05
888	ALL	483412.5	3717363	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-05
889	ALL	483437.5	3717363	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05
890	ALL	483462.5	3717363	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05
891	ALL	483487.5	3717363	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05
892	ALL	483512.5	3717363	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05
893	ALL	483537.5	3717363	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05
894	ALL	483787.5	3717363	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-05
895	ALL	483812.5	3717363	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-05
896	ALL	483837.5	3717363	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-05
897	ALL	483862.5	3717363	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.77E-05
898	ALL	483887.5	3717363	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.01E-05
899	ALL	483912.5	3717363	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-05
900	ALL	483937.5	3717363	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E-05
901	ALL	483962.5	3717363	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-05
902	ALL	483987.5	3717363	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.67E-05
903	ALL	484012.5	3717363	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-05
904	ALL	484037.5	3717363	NonCancer

908	ALL	484637.5	3717363	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-05
909	ALL	484662.5	3717363	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05
910	ALL	484687.5	3717363	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05
911	ALL	484712.5	3717363	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05
912	ALL	484737.5	3717363	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05
913	ALL	484762.5	3717363	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05
914	ALL	484787.5	3717363	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05
915	ALL	483412.5	3717388	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05
916	ALL	483437.5	3717388	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05
917	ALL	483462.5	3717388	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05
918	ALL	483487.5	3717388	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05
919	ALL	483512.5	3717388	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05
920	ALL	483537.5	3717388	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-05
921	ALL	483562.5	3717388	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05
922	ALL	483787.5	3717388	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-05
923	ALL	483812.5	3717388	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-05
924	ALL	483837.5	3717388	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-05
925	ALL	483862.5	3717388	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.30E-05
926	ALL	483887.5	3717388	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.60E-05
927	ALL	483912.5	3717388	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.85E-05
928	ALL	483937.5	3717388	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.07E-05
929	ALL	483962.5	3717388	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.25E-05
930	ALL	483987.5	3717388	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.41E-05
931	ALL	484012.5	3717388	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.52E-05
932	ALL	484037.5	3717388	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.58E-05
933	ALL	484062.5	3717388	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.58E-05
934	ALL	484562.5	3717388	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05
935	ALL	484587.5	3717388	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-05
936	ALL	484612.5	3717388	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05
937	ALL	484637.5	3717388	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05
938	ALL	484662.5	3717388	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-05
939	ALL	484687.5	3717388	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-05
940	ALL	484712.5	3717388	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05
941	ALL	484737.5	3717388	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05
942	ALL	484762.5	3717388	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05
943	ALL	484787.5	3717388	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-05
944	ALL	483412.5	3717413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05
945	ALL	483437.5	3717413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05
946	ALL	483462.5	3717413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05
947	ALL	483487.5	3717413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-05
948	ALL	483512.5	3717413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-05
949	ALL	483537.5	3717413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05
950	ALL	483562.5	3717413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-05
951	ALL	483787.5	3717413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.77E-05
952	ALL	483812.5	3717413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.12E-05
953	ALL	483837.5	3717413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.49E-05
954	ALL	483862.5	3717413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-05
955	ALL	483887.5	3717413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.25E-05
956	ALL	483912.5	3717413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.59E-05
957	ALL	483937.5	3717413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-05
958	ALL	483962.5	3717413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.13E-05
959	ALL	483987.5	3717413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.32E-05
960	ALL	484012.5	3717413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.45E-05
961	ALL	484037.5	3717413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.51E-05
962	ALL	484062.5	3717413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.49E-05
963	ALL	484487.5	3717413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-05
964	ALL	484512.5	3717413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-05
965	ALL	484537.5	3717413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-05
966	ALL	484562.5	3717413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-05
967	ALL	484587.5	3717413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-05
968	ALL	484612.5	3717413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-05
969	ALL	484637.5	3717413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-05
970	ALL	484662.5	3717413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-05
971	ALL	484687.5	3717413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05
972	ALL	484712.5	3717413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05
973	ALL	484737.5	3717413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05
974	ALL	484762.5	3717413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05
975	ALL	484787.5	3717413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-05
976	ALL	483412.5	3717438	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-05
977	ALL	483437.5	3717438	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05
978	ALL	483462.5	3717438	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05
979	ALL	483487.5	3717438	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05
980	ALL	483512.5	3717438	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-05
981	ALL	483537.5	3717438	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-05
982	ALL	483562.5	3717438	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-05
983	ALL	483587.5	3717438	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-05
984	ALL	483837.5	3717438	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.05E-05
985	ALL	483862.5	3717438	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.51E-05
986	ALL	483887.5	3717438	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.98E-05
987	ALL	483912.5	3717438	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.47E-05
988	ALL	483937.5	3717438	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.88E-05
989	ALL	483962.5	3717438	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.21E-05
990	ALL	483987.5	3717438	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.46E-05
991	ALL	484012.5	3717438	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.62E-05
992	ALL	484037.5	3717438	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.68E-05
993	ALL	484062.5	3717438	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.65E-05
994	ALL	484487.5	3717438	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-05
995	ALL	484512.5	3717438	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-05
996	ALL	484537.5	3717438	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-05
997	ALL	484562.5	3717438	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-05
998	ALL	484587.5	3717438	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-05
999	ALL	484612.5	3717438	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-05
1000	ALL	484637.5	3717438	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05
1001	ALL	484662.5	3717438	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-05
1002	ALL	484687.5	3717438	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05
1003	ALL	484712.5	3717438	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-05
1004	ALL	484737.5	3717438	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-05
1005	ALL	484762.5	3717438

1009	ALL	483487.5	3717463	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-05
1010	ALL	483512.5	3717463	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05
1011	ALL	483537.5	3717463	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-05
1012	ALL	483562.5	3717463	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05
1013	ALL	483587.5	3717463	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-05
1014	ALL	483887.5	3717463	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.01E-05
1015	ALL	483912.5	3717463	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.64E-05
1016	ALL	483937.5	3717463	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.19E-05
1017	ALL	483962.5	3717463	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.64E-05
1018	ALL	483987.5	3717463	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.98E-05
1019	ALL	484012.5	3717463	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04
1020	ALL	484037.5	3717463	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04
1021	ALL	484062.5	3717463	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
1022	ALL	484487.5	3717463	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-05
1023	ALL	484512.5	3717463	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-05
1024	ALL	484537.5	3717463	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-05
1025	ALL	484562.5	3717463	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-05
1026	ALL	484587.5	3717463	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-05
1027	ALL	484612.5	3717463	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-05
1028	ALL	484637.5	3717463	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-05
1029	ALL	484662.5	3717463	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05
1030	ALL	484687.5	3717463	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05
1031	ALL	484712.5	3717463	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05
1032	ALL	484737.5	3717463	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-05
1033	ALL	484762.5	3717463	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05
1034	ALL	483412.5	3717488	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05
1035	ALL	483437.5	3717488	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05
1036	ALL	483462.5	3717488	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05
1037	ALL	483487.5	3717488	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-05
1038	ALL	483512.5	3717488	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-05
1039	ALL	483537.5	3717488	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-05
1040	ALL	483562.5	3717488	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-05
1041	ALL	483587.5	3717488	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-05
1042	ALL	483612.5	3717488	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-05
1043	ALL	483912.5	3717488	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04
1044	ALL	483937.5	3717488	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04
1045	ALL	483962.5	3717488	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04
1046	ALL	483987.5	3717488	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04
1047	ALL	484012.5	3717488	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04
1048	ALL	484037.5	3717488	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04
1049	ALL	484062.5	3717488	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04
1050	ALL	484537.5	3717488	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-05
1051	ALL	484562.5	3717488	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-05
1052	ALL	484587.5	3717488	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-05
1053	ALL	484612.5	3717488	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05
1054	ALL	484637.5	3717488	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-05
1055	ALL	484662.5	3717488	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05
1056	ALL	484687.5	3717488	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-05
1057	ALL	484712.5	3717488	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05
1058	ALL	484737.5	3717488	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05
1059	ALL	484762.5	3717488	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05
1060	ALL	483412.5	3717513	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05
1061	ALL	483437.5	3717513	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05
1062	ALL	483462.5	3717513	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-05
1063	ALL	483487.5	3717513	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-05
1064	ALL	483512.5	3717513	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-05
1065	ALL	483537.5	3717513	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-05
1066	ALL	483562.5	3717513	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-05
1067	ALL	483587.5	3717513	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-05
1068	ALL	483612.5	3717513	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-05
1069	ALL	483912.5	3717513	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04
1070	ALL	483937.5	3717513	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04
1071	ALL	483962.5	3717513	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04
1072	ALL	483987.5	3717513	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04
1073	ALL	484012.5	3717513	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04
1074	ALL	484037.5	3717513	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04
1075	ALL	484062.5	3717513	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04
1076	ALL	484537.5	3717513	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-05
1077	ALL	484562.5	3717513	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-05
1078	ALL	484587.5	3717513	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-05
1079	ALL	484612.5	3717513	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-05
1080	ALL	484637.5	3717513	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-05
1081	ALL	484662.5	3717513	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05
1082	ALL	484687.5	3717513	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-05
1083	ALL	484712.5	3717513	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05
1084	ALL	484737.5	3717513	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05
1085	ALL	484762.5	3717513	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05
1086	ALL	483412.5	3717538	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05
1087	ALL	483437.5	3717538	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05
1088	ALL	483462.5	3717538	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05
1089	ALL	483487.5	3717538	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-05
1090	ALL	483512.5	3717538	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-05
1091	ALL	483537.5	3717538	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-05
1092	ALL	483562.5	3717538	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-05
1093	ALL	483587.5	3717538	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-05
1094	ALL	483612.5	3717538	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-05
1095	ALL	483637.5	3717538	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-05
1096	ALL	483937.5	3717538	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04
1097	ALL	483962.5	3717538	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-04
1098	ALL	483987.5	3717538	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04
1099	ALL	484012.5	3717538	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-04
1100	ALL	484037.5	3717538	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-04
1101	ALL	484062.5	3717538	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04
1102	ALL	483412.5	3717563	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-05
1103	ALL	483437.5	3717563	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-05
1104	ALL	483462.5	3717563	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-05
1105	ALL	483487.5	3717563	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-05	0.00

1110	ALL	483612.5	3717563	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-05
1111	ALL	483637.5	3717563	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-05
1112	ALL	483937.5	3717563	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04
1113	ALL	483962.5	3717563	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04
1114	ALL	483987.5	3717563	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04
1115	ALL	484012.5	3717563	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04
1116	ALL	484037.5	3717563	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-04
1117	ALL	484062.5	3717563	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-04
1118	ALL	483412.5	3717588	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05
1119	ALL	483437.5	3717588	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-05
1120	ALL	483462.5	3717588	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-05
1121	ALL	483487.5	3717588	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-05
1122	ALL	483512.5	3717588	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-05
1123	ALL	483537.5	3717588	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-05
1124	ALL	483562.5	3717588	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-05
1125	ALL	483587.5	3717588	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-05
1126	ALL	483612.5	3717588	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-05
1127	ALL	483637.5	3717588	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.55E-05
1128	ALL	484512.5	3717613	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-05
1129	ALL	484537.5	3717613	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-05
1130	ALL	484562.5	3717613	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-05
1131	ALL	484587.5	3717613	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-05
1132	ALL	484612.5	3717613	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-05
1133	ALL	484637.5	3717613	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-05
1134	ALL	484662.5	3717613	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-05
1135	ALL	484687.5	3717613	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-05
1136	ALL	484712.5	3717613	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-05
1137	ALL	484737.5	3717613	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05
1138	ALL	484762.5	3717613	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-05
1139	ALL	484787.5	3717613	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05
1140	ALL	484812.5	3717613	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05
1141	ALL	484837.5	3717613	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05
1142	ALL	484862.5	3717613	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05
1143	ALL	484512.5	3717638	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-05
1144	ALL	484537.5	3717638	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-05
1145	ALL	484562.5	3717638	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-05
1146	ALL	484587.5	3717638	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-05
1147	ALL	484612.5	3717638	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-05
1148	ALL	484637.5	3717638	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-05
1149	ALL	484662.5	3717638	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-05
1150	ALL	484687.5	3717638	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-05
1151	ALL	484712.5	3717638	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-05
1152	ALL	484737.5	3717638	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-05
1153	ALL	484762.5	3717638	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05
1154	ALL	484787.5	3717638	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05
1155	ALL	484812.5	3717638	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05
1156	ALL	484837.5	3717638	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-05
1157	ALL	484862.5	3717638	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-05
1158	ALL	484512.5	3717663	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-05
1159	ALL	484537.5	3717663	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-05
1160	ALL	484562.5	3717663	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-05
1161	ALL	484587.5	3717663	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-05
1162	ALL	484612.5	3717663	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-05
1163	ALL	484637.5	3717663	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-05
1164	ALL	484662.5	3717663	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-05
1165	ALL	484687.5	3717663	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-05
1166	ALL	484712.5	3717663	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-05
1167	ALL	484737.5	3717663	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-05
1168	ALL	484762.5	3717663	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05
1169	ALL	484787.5	3717663	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05
1170	ALL	484812.5	3717663	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05
1171	ALL	484837.5	3717663	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-05
1172	ALL	484862.5	3717663	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05
1173	ALL	484512.5	3717688	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-05
1174	ALL	484537.5	3717688	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-05
1175	ALL	484562.5	3717688	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-05
1176	ALL	484587.5	3717688	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-05
1177	ALL	484612.5	3717688	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-05
1178	ALL	484637.5	3717688	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-05
1179	ALL	484662.5	3717688	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-05
1180	ALL	484687.5	3717688	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-05
1181	ALL	484712.5	3717688	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-05
1182	ALL	484737.5	3717688	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05
1183	ALL	484762.5	3717688	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05
1184	ALL	484787.5	3717688	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05
1185	ALL	484812.5	3717688	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05
1186	ALL	484837.5	3717688	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05
1187	ALL	484862.5	3717688	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05
1188	ALL	484512.5	3717713	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-05
1189	ALL	484537.5	3717713	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-05
1190	ALL	484562.5	3717713	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-05
1191	ALL	484587.5	3717713	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05
1192	ALL	484612.5	3717713	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-05
1193	ALL	484637.5	3717713	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-05
1194	ALL	484662.5	3717713	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-05
1195	ALL	484687.5	3717713	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-05
1196	ALL	484712.5	3717713	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-05
1197	ALL	484737.5	3717713	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05
1198	ALL	484762.5	3717713	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05
1199	ALL	484787.5	3717713	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05
1200	ALL	484812.5	3717713	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05
1201	ALL	484837.5	3717713	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05
1202	ALL	484862.5	3717713	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05
1203	ALL	484512.5	3717738	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.60E-05
1204	ALL	484537.5	3717738	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-05
1205	ALL	484562.5	3717738	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-05
1206	ALL	484587.5	3717738	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-05	0.00

1211	ALL	484712.5	3717738	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05
1212	ALL	484737.5	3717738	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05
1213	ALL	484762.5	3717738	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05
1214	ALL	484787.5	3717738	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05
1215	ALL	484812.5	3717738	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05
1216	ALL	484837.5	3717738	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05
1217	ALL	484862.5	3717738	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05
1218	ALL	484512.5	3717763	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-05
1219	ALL	484537.5	3717763	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-05
1220	ALL	484562.5	3717763	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-05
1221	ALL	484587.5	3717763	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-05
1222	ALL	484612.5	3717763	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-05
1223	ALL	484637.5	3717763	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-05
1224	ALL	484662.5	3717763	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-05
1225	ALL	484687.5	3717763	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-05
1226	ALL	484712.5	3717763	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-05
1227	ALL	484737.5	3717763	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-05
1228	ALL	484762.5	3717763	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05
1229	ALL	484787.5	3717763	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05
1230	ALL	484812.5	3717763	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05
1231	ALL	484837.5	3717763	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05
1232	ALL	484862.5	3717763	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-05
1233	ALL	484512.5	3717788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-05
1234	ALL	484537.5	3717788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-05
1235	ALL	484562.5	3717788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-05
1236	ALL	484587.5	3717788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-05
1237	ALL	484612.5	3717788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-05
1238	ALL	484637.5	3717788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-05
1239	ALL	484662.5	3717788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05
1240	ALL	484687.5	3717788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-05
1241	ALL	484712.5	3717788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05
1242	ALL	484737.5	3717788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-05
1243	ALL	484762.5	3717788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05
1244	ALL	484787.5	3717788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05
1245	ALL	484812.5	3717788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-05
1246	ALL	484837.5	3717788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-05
1247	ALL	484862.5	3717788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-05
1248	ALL	483412.5	3717813	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-05
1249	ALL	483437.5	3717813	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-05
1250	ALL	483462.5	3717813	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-05
1251	ALL	483487.5	3717813	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-05
1252	ALL	484512.5	3717813	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.79E-05
1253	ALL	484537.5	3717813	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-05
1254	ALL	484562.5	3717813	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-05
1255	ALL	484587.5	3717813	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-05
1256	ALL	484612.5	3717813	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-05
1257	ALL	484637.5	3717813	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-05
1258	ALL	484662.5	3717813	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-05
1259	ALL	484687.5	3717813	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-05
1260	ALL	484712.5	3717813	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-05
1261	ALL	484737.5	3717813	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05
1262	ALL	484762.5	3717813	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-05
1263	ALL	484787.5	3717813	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-05
1264	ALL	484812.5	3717813	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05
1265	ALL	484837.5	3717813	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05
1266	ALL	484862.5	3717813	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05
1267	ALL	483412.5	3717838	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-05
1268	ALL	483437.5	3717838	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-05
1269	ALL	483462.5	3717838	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-05
1270	ALL	483487.5	3717838	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-05
1271	ALL	483512.5	3717838	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-05
1272	ALL	484512.5	3717838	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-05
1273	ALL	484537.5	3717838	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-05
1274	ALL	484562.5	3717838	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-05
1275	ALL	484587.5	3717838	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-05
1276	ALL	484612.5	3717838	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-05
1277	ALL	484637.5	3717838	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-05
1278	ALL	484662.5	3717838	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05
1279	ALL	484687.5	3717838	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-05
1280	ALL	484712.5	3717838	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-05
1281	ALL	484737.5	3717838	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-05
1282	ALL	484762.5	3717838	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05
1283	ALL	484787.5	3717838	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05
1284	ALL	484812.5	3717838	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05
1285	ALL	484837.5	3717838	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05
1286	ALL	484862.5	3717838	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05
1287	ALL	483412.5	3717863	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05
1288	ALL	483437.5	3717863	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-05
1289	ALL	483462.5	3717863	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-05
1290	ALL	483487.5	3717863	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-05
1291	ALL	483512.5	3717863	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-05
1292	ALL	484512.5	3717863	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.92E-05
1293	ALL	484537.5	3717863	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-05
1294	ALL	484562.5	3717863	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.06E-05
1295	ALL	484587.5	3717863	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-05
1296	ALL	484612.5	3717863	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-05
1297	ALL	484637.5	3717863	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-05
1298	ALL	484662.5	3717863	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-05
1299	ALL	484687.5	3717863	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-05
1300	ALL	484712.5	3717863	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-05
1301	ALL	484737.5	3717863	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-05
1302	ALL	484762.5	3717863	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-05
1303	ALL	484787.5	3717863	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05
1304	ALL	484812.5	3717863	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05
1305	ALL	484837.5	3717863	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05
1306	ALL	484862.5	3717863	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05
1307	ALL	483412.5	3717888	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-05	0.00

1312	ALL	483537.5	3717888	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-05
1313	ALL	484512.5	3717888	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-05
1314	ALL	484537.5	3717888	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-05
1315	ALL	484562.5	3717888	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-05
1316	ALL	484587.5	3717888	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-05
1317	ALL	484612.5	3717888	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-05
1318	ALL	484637.5	3717888	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-05
1319	ALL	484662.5	3717888	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-05
1320	ALL	484687.5	3717888	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-05
1321	ALL	484712.5	3717888	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05
1322	ALL	484737.5	3717888	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05
1323	ALL	484762.5	3717888	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-05
1324	ALL	484787.5	3717888	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05
1325	ALL	484812.5	3717888	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05
1326	ALL	484837.5	3717888	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05
1327	ALL	484862.5	3717888	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05
1328	ALL	483412.5	3717913	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-05
1329	ALL	483437.5	3717913	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-05
1330	ALL	483462.5	3717913	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-05
1331	ALL	483487.5	3717913	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-05
1332	ALL	483512.5	3717913	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-05
1333	ALL	483537.5	3717913	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-05
1334	ALL	483562.5	3717913	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-05
1335	ALL	484512.5	3717913	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.04E-05
1336	ALL	484537.5	3717913	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-05
1337	ALL	484562.5	3717913	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-05
1338	ALL	484587.5	3717913	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-05
1339	ALL	484612.5	3717913	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-05
1340	ALL	484637.5	3717913	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-05
1341	ALL	484662.5	3717913	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-05
1342	ALL	484687.5	3717913	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-05
1343	ALL	484712.5	3717913	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-05
1344	ALL	484737.5	3717913	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-05
1345	ALL	484762.5	3717913	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05
1346	ALL	484787.5	3717913	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05
1347	ALL	484812.5	3717913	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05
1348	ALL	484837.5	3717913	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05
1349	ALL	484862.5	3717913	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-05
1350	ALL	483412.5	3717938	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-05
1351	ALL	483437.5	3717938	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-05
1352	ALL	483462.5	3717938	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-05
1353	ALL	483487.5	3717938	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-05
1354	ALL	483512.5	3717938	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-05
1355	ALL	483537.5	3717938	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05
1356	ALL	483562.5	3717938	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-05
1357	ALL	483587.5	3717938	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.23E-05
1358	ALL	484512.5	3717938	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.09E-05
1359	ALL	484537.5	3717938	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-05
1360	ALL	484562.5	3717938	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-05
1361	ALL	484587.5	3717938	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-05
1362	ALL	484612.5	3717938	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-05
1363	ALL	484637.5	3717938	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-05
1364	ALL	484662.5	3717938	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-05
1365	ALL	484687.5	3717938	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-05
1366	ALL	484712.5	3717938	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-05
1367	ALL	484737.5	3717938	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-05
1368	ALL	484762.5	3717938	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-05
1369	ALL	484787.5	3717938	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05
1370	ALL	484812.5	3717938	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05
1371	ALL	484837.5	3717938	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05
1372	ALL	484862.5	3717938	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05
1373	ALL	483412.5	3717963	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-05
1374	ALL	483437.5	3717963	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-05
1375	ALL	483462.5	3717963	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-05
1376	ALL	483487.5	3717963	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-05
1377	ALL	483512.5	3717963	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-05
1378	ALL	483537.5	3717963	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-05
1379	ALL	483562.5	3717963	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-05
1380	ALL	483587.5	3717963	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.16E-05
1381	ALL	483612.5	3717963	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-05
1382	ALL	484512.5	3717963	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.14E-05
1383	ALL	484537.5	3717963	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-05
1384	ALL	484562.5	3717963	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-05
1385	ALL	484587.5	3717963	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-05
1386	ALL	484612.5	3717963	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-05
1387	ALL	484637.5	3717963	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-05
1388	ALL	484662.5	3717963	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-05
1389	ALL	484687.5	3717963	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05
1390	ALL	484712.5	3717963	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-05
1391	ALL	484737.5	3717963	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05
1392	ALL	484762.5	3717963	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-05
1393	ALL	484787.5	3717963	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05
1394	ALL	484812.5	3717963	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05
1395	ALL	484837.5	3717963	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05
1396	ALL	484862.5	3717963	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-05
1397	ALL	483412.5	3717988	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-05
1398	ALL	483437.5	3717988	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05
1399	ALL	483462.5	3717988	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-05
1400	ALL	483487.5	3717988	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05
1401	ALL	483512.5	3717988	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-05
1402	ALL	483537.5	3717988	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-05
1403	ALL	483562.5	3717988	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-05
1404	ALL	483587.5	3717988	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.06E-05
1405	ALL	483612.5	3717988	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-05
1406	ALL	484512.5	3717988	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.17E-05
1407	ALL	484537.5	3717988	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-05
1408	ALL	484562.5	3717988	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-05	0.00

1413	ALL	484687.5	3717988	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-05
1414	ALL	484712.5	3717988	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-05
1415	ALL	484737.5	3717988	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-05
1416	ALL	484762.5	3717988	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05
1417	ALL	484787.5	3717988	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-05
1418	ALL	484812.5	3717988	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-05
1419	ALL	484837.5	3717988	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05
1420	ALL	484862.5	3717988	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-05
1421	ALL	483412.5	3718013	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-05
1422	ALL	483437.5	3718013	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-05
1423	ALL	483462.5	3718013	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-05
1424	ALL	483487.5	3718013	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-05
1425	ALL	483512.5	3718013	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-05
1426	ALL	483537.5	3718013	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-05
1427	ALL	483562.5	3718013	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-05
1428	ALL	483587.5	3718013	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-05
1429	ALL	483612.5	3718013	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-05
1430	ALL	483637.5	3718013	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.84E-05
1431	ALL	484512.5	3718013	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.19E-05
1432	ALL	484537.5	3718013	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.72E-05
1433	ALL	484562.5	3718013	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-05
1434	ALL	484587.5	3718013	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-05
1435	ALL	484612.5	3718013	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-05
1436	ALL	484637.5	3718013	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-05
1437	ALL	484662.5	3718013	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-05
1438	ALL	484687.5	3718013	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05
1439	ALL	484712.5	3718013	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-05
1440	ALL	484737.5	3718013	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-05
1441	ALL	484762.5	3718013	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-05
1442	ALL	484787.5	3718013	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05
1443	ALL	484812.5	3718013	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-05
1444	ALL	484837.5	3718013	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05
1445	ALL	484862.5	3718013	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05
1446	ALL	483412.5	3718038	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05
1447	ALL	483437.5	3718038	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-05
1448	ALL	483462.5	3718038	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-05
1449	ALL	483487.5	3718038	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-05
1450	ALL	483512.5	3718038	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-05
1451	ALL	483537.5	3718038	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-05
1452	ALL	483562.5	3718038	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-05
1453	ALL	483587.5	3718038	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-05
1454	ALL	483612.5	3718038	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-05
1455	ALL	483637.5	3718038	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-05
1456	ALL	483662.5	3718038	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.20E-05
1457	ALL	484512.5	3718038	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.19E-05
1458	ALL	484537.5	3718038	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-05
1459	ALL	484562.5	3718038	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.33E-05
1460	ALL	484587.5	3718038	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-05
1461	ALL	484612.5	3718038	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-05
1462	ALL	484637.5	3718038	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-05
1463	ALL	484662.5	3718038	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-05
1464	ALL	484687.5	3718038	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-05
1465	ALL	484712.5	3718038	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-05
1466	ALL	484737.5	3718038	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-05
1467	ALL	484762.5	3718038	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-05
1468	ALL	484787.5	3718038	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05
1469	ALL	484812.5	3718038	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05
1470	ALL	484837.5	3718038	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05
1471	ALL	484862.5	3718038	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05
1472	ALL	483412.5	3718063	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05
1473	ALL	483437.5	3718063	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05
1474	ALL	483462.5	3718063	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-05
1475	ALL	483487.5	3718063	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-05
1476	ALL	483512.5	3718063	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05
1477	ALL	483537.5	3718063	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-05
1478	ALL	483562.5	3718063	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-05
1479	ALL	483587.5	3718063	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-05
1480	ALL	483612.5	3718063	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-05
1481	ALL	483637.5	3718063	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-05
1482	ALL	483662.5	3718063	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-05
1483	ALL	484512.5	3718063	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-05
1484	ALL	484537.5	3718063	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.72E-05
1485	ALL	484562.5	3718063	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-05
1486	ALL	484587.5	3718063	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-05
1487	ALL	484612.5	3718063	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-05
1488	ALL	484637.5	3718063	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-05
1489	ALL	484662.5	3718063	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-05
1490	ALL	484687.5	3718063	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-05
1491	ALL	483412.5	3718088	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05
1492	ALL	483437.5	3718088	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05
1493	ALL	483462.5	3718088	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-05
1494	ALL	483487.5	3718088	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-05
1495	ALL	483512.5	3718088	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-05
1496	ALL	483537.5	3718088	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-05
1497	ALL	483562.5	3718088	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-05
1498	ALL	483587.5	3718088	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-05
1499	ALL	483612.5	3718088	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-05
1500	ALL	483637.5	3718088	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.33E-05
1501	ALL	483662.5	3718088	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-05
1502	ALL	484512.5	3718088	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E-05
1503	ALL	484537.5	3718088	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-05
1504	ALL	484562.5	3718088	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-05
1505	ALL	484587.5	3718088	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-05
1506	ALL	484612.5	3718088	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-05
1507	ALL	484637.5	3718088	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-05
1508	ALL	484662.5	3718088	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-05
1509	ALL	484687.5	3718088	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-05	0.00

1514	ALL	483512.5	3718113	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-05
1515	ALL	483537.5	3718113	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-05
1516	ALL	483562.5	3718113	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-05
1517	ALL	483587.5	3718113	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-05
1518	ALL	483612.5	3718113	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-05
1519	ALL	483637.5	3718113	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-05
1520	ALL	483662.5	3718113	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-05
1521	ALL	483687.5	3718113	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.93E-05
1522	ALL	484512.5	3718113	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.01E-05
1523	ALL	484537.5	3718113	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-05
1524	ALL	484562.5	3718113	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-05
1525	ALL	484587.5	3718113	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-05
1526	ALL	484612.5	3718113	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-05
1527	ALL	484637.5	3718113	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-05
1528	ALL	484662.5	3718113	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-05
1529	ALL	484687.5	3718113	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-05
1530	ALL	483412.5	3718138	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05
1531	ALL	483437.5	3718138	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05
1532	ALL	483462.5	3718138	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-05
1533	ALL	483487.5	3718138	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05
1534	ALL	483512.5	3718138	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-05
1535	ALL	483537.5	3718138	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05
1536	ALL	483562.5	3718138	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-05
1537	ALL	483587.5	3718138	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-05
1538	ALL	483612.5	3718138	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-05
1539	ALL	483637.5	3718138	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-05
1540	ALL	483662.5	3718138	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-05
1541	ALL	483687.5	3718138	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-05
1542	ALL	484512.5	3718138	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.90E-05
1543	ALL	484537.5	3718138	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-05
1544	ALL	484562.5	3718138	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-05
1545	ALL	484587.5	3718138	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-05
1546	ALL	484612.5	3718138	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-05
1547	ALL	484637.5	3718138	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-05
1548	ALL	484662.5	3718138	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-05
1549	ALL	484687.5	3718138	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-05
1550	ALL	483412.5	3718163	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05
1551	ALL	483437.5	3718163	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05
1552	ALL	483462.5	3718163	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-05
1553	ALL	483487.5	3718163	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-05
1554	ALL	483512.5	3718163	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-05
1555	ALL	483537.5	3718163	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-05
1556	ALL	483562.5	3718163	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-05
1557	ALL	483587.5	3718163	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-05
1558	ALL	483612.5	3718163	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-05
1559	ALL	483637.5	3718163	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-05
1560	ALL	483662.5	3718163	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-05
1561	ALL	483687.5	3718163	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-05
1562	ALL	484512.5	3718163	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.76E-05
1563	ALL	484537.5	3718163	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-05
1564	ALL	484562.5	3718163	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E-05
1565	ALL	484587.5	3718163	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-05
1566	ALL	484612.5	3718163	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-05
1567	ALL	484637.5	3718163	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-05
1568	ALL	484662.5	3718163	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-05
1569	ALL	484687.5	3718163	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-05
1570	ALL	484712.5	3718163	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-05
1571	ALL	484737.5	3718163	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-05
1572	ALL	484762.5	3718163	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05
1573	ALL	484787.5	3718163	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05
1574	ALL	484812.5	3718163	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05
1575	ALL	484837.5	3718163	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05
1576	ALL	484862.5	3718163	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05
1577	ALL	483412.5	3718188	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05
1578	ALL	483437.5	3718188	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-05
1579	ALL	483462.5	3718188	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-05
1580	ALL	483487.5	3718188	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-05
1581	ALL	483512.5	3718188	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-05
1582	ALL	483537.5	3718188	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-05
1583	ALL	483562.5	3718188	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05
1584	ALL	484512.5	3718188	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-05
1585	ALL	484537.5	3718188	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-05
1586	ALL	484562.5	3718188	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-05
1587	ALL	484587.5	3718188	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-05
1588	ALL	484612.5	3718188	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-05
1589	ALL	484637.5	3718188	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-05
1590	ALL	484662.5	3718188	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-05
1591	ALL	484687.5	3718188	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-05
1592	ALL	484712.5	3718188	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-05
1593	ALL	484737.5	3718188	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-05
1594	ALL	484762.5	3718188	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05
1595	ALL	484787.5	3718188	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05
1596	ALL	484812.5	3718188	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-05
1597	ALL	484837.5	3718188	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05
1598	ALL	484862.5	3718188	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05
1599	ALL	484162.5	3718213	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.75E-05
1600	ALL	484187.5	3718213	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.73E-05
1601	ALL	484212.5	3718213	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.66E-05
1602	ALL	484512.5	3718213	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-05
1603	ALL	484537.5	3718213	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.16E-05
1604	ALL	484562.5	3718213	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-05
1605	ALL	484587.5	3718213	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-05
1606	ALL	484612.5	3718213	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-05
1607	ALL	484637.5	3718213	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-05
1608	ALL	484662.5	3718213	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-05
1609	ALL	484687.5	3718213	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-05
1610	ALL	484712.5	3718213	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-05	0.00

1615	ALL	484837.5	3718213	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05
1616	ALL	484862.5	3718213	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05
1617	ALL	484512.5	3718238	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-05
1618	ALL	484537.5	3718238	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-05
1619	ALL	484562.5	3718238	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-05
1620	ALL	484587.5	3718238	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-05
1621	ALL	484612.5	3718238	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-05
1622	ALL	484637.5	3718238	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-05
1623	ALL	484662.5	3718238	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-05
1624	ALL	484687.5	3718238	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05
1625	ALL	484712.5	3718238	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-05
1626	ALL	484737.5	3718238	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-05
1627	ALL	484762.5	3718238	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05
1628	ALL	484787.5	3718238	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05
1629	ALL	484812.5	3718238	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05
1630	ALL	484837.5	3718238	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05
1631	ALL	484862.5	3718238	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05
1632	ALL	483412.5	3718263	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-05
1633	ALL	483437.5	3718263	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05
1634	ALL	484137.5	3718263	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.92E-05
1635	ALL	484162.5	3718263	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.95E-05
1636	ALL	484212.5	3718263	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.95E-05
1637	ALL	484512.5	3718263	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-05
1638	ALL	484537.5	3718263	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-05
1639	ALL	484562.5	3718263	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-05
1640	ALL	484587.5	3718263	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-05
1641	ALL	484612.5	3718263	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-05
1642	ALL	484637.5	3718263	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-05
1643	ALL	484662.5	3718263	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-05
1644	ALL	484687.5	3718263	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-05
1645	ALL	484712.5	3718263	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-05
1646	ALL	484737.5	3718263	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05
1647	ALL	484762.5	3718263	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-05
1648	ALL	484787.5	3718263	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05
1649	ALL	484812.5	3718263	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05
1650	ALL	484837.5	3718263	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05
1651	ALL	484862.5	3718263	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05
1652	ALL	483412.5	3718288	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05
1653	ALL	483437.5	3718288	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05
1654	ALL	484212.5	3718288	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-05
1655	ALL	484512.5	3718288	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-05
1656	ALL	484537.5	3718288	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-05
1657	ALL	484562.5	3718288	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-05
1658	ALL	484587.5	3718288	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-05
1659	ALL	484612.5	3718288	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-05
1660	ALL	484637.5	3718288	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-05
1661	ALL	484662.5	3718288	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-05
1662	ALL	484687.5	3718288	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-05
1663	ALL	484712.5	3718288	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-05
1664	ALL	484737.5	3718288	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05
1665	ALL	484762.5	3718288	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-05
1666	ALL	484787.5	3718288	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-05
1667	ALL	484812.5	3718288	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05
1668	ALL	484837.5	3718288	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05
1669	ALL	484862.5	3718288	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-05
1670	ALL	483412.5	3718313	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05
1671	ALL	483437.5	3718313	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-05
1672	ALL	484187.5	3718313	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-05
1673	ALL	483412.5	3718338	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-05
1674	ALL	483437.5	3718338	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05
1675	ALL	484187.5	3718338	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-05
1676	ALL	483412.5	3718413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-05
1677	ALL	483437.5	3718413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05
1678	ALL	483412.5	3718438	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-05
1679	ALL	483437.5	3718438	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05
1680	ALL	484462.5	3718463	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-05
1681	ALL	484487.5	3718463	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-05
1682	ALL	484462.5	3718488	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05
1683	ALL	484487.5	3718488	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-05

HARP2 - HRACalc (dated 19044) 4/23/2020 3:07:01 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: NCChronic
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER
Exposure duration are only adjusted for cancer assessments

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: LongTerm24HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
NOTE: Exposure duration (i.e., start age, end age, ED, & FAH) are only adjusted for cancer assessments.

****

CurciMitChronicOutput

SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.02
Soil mixing depth (m): 0.01
Dermal climate: Mixed

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed
Calculating chronic risk
Chronic risk breakdown by pollutant and receptor saved to: C:\Users\swang\Documents\1. Projects\10773 Retail Development Advisors - Murrieta EIR\HRA\HARP2\CurciConstMit\hra\CurciMitChronicNCChronicRisk.csv
Chronic risk total by receptor saved to: C:\Users\swang\Documents\1. Projects\10773 Retail Development Advisors - Murrieta EIR\HRA\HARP2\CurciConstMit\hra\CurciMitChronicNCChronicRiskSumByRec.csv
HRA ran successfully

*HARP - HRACalc v19044 4/16/2020 3:56:29 PM - Cancer Risk - Input File: C:\Users\swang\Documents\

REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK
1	ALL		481950	3715450	2.01E-08	0.67YrCanc	2.01E-08	0.00E+00
2	ALL		482050	3715450	2.06E-08	0.67YrCanc	2.06E-08	0.00E+00
3	ALL		482150	3715450	2.09E-08	0.67YrCanc	2.09E-08	0.00E+00
4	ALL		482250	3715450	2.16E-08	0.67YrCanc	2.16E-08	0.00E+00
5	ALL		482350	3715450	2.22E-08	0.67YrCanc	2.22E-08	0.00E+00
6	ALL		482450	3715450	2.26E-08	0.67YrCanc	2.26E-08	0.00E+00
7	ALL		482550	3715450	2.31E-08	0.67YrCanc	2.31E-08	0.00E+00
8	ALL		482650	3715450	2.37E-08	0.67YrCanc	2.37E-08	0.00E+00
9	ALL		482750	3715450	2.44E-08	0.67YrCanc	2.44E-08	0.00E+00
10	ALL		482850	3715450	2.52E-08	0.67YrCanc	2.52E-08	0.00E+00
11	ALL		482950	3715450	2.58E-08	0.67YrCanc	2.58E-08	0.00E+00
12	ALL		483050	3715450	2.65E-08	0.67YrCanc	2.65E-08	0.00E+00
13	ALL		483150	3715450	2.71E-08	0.67YrCanc	2.71E-08	0.00E+00
14	ALL		483250	3715450	2.76E-08	0.67YrCanc	2.76E-08	0.00E+00
15	ALL		483350	3715450	2.81E-08	0.67YrCanc	2.81E-08	0.00E+00
16	ALL		483450	3715450	2.85E-08	0.67YrCanc	2.85E-08	0.00E+00
17	ALL		483550	3715450	2.90E-08	0.67YrCanc	2.90E-08	0.00E+00
18	ALL		483650	3715450	2.92E-08	0.67YrCanc	2.92E-08	0.00E+00
19	ALL		483750	3715450	2.97E-08	0.67YrCanc	2.97E-08	0.00E+00
20	ALL		483850	3715450	3.01E-08	0.67YrCanc	3.01E-08	0.00E+00
21	ALL		483950	3715450	3.04E-08	0.67YrCanc	3.04E-08	0.00E+00
22	ALL		484050	3715450	3.05E-08	0.67YrCanc	3.05E-08	0.00E+00
23	ALL		484150	3715450	3.05E-08	0.67YrCanc	3.05E-08	0.00E+00
24	ALL		484250	3715450	3.06E-08	0.67YrCanc	3.06E-08	0.00E+00
25	ALL		484350	3715450	3.08E-08	0.67YrCanc	3.08E-08	0.00E+00
26	ALL		484450	3715450	3.09E-08	0.67YrCanc	3.09E-08	0.00E+00
27	ALL		481950	3715550	2.07E-08	0.67YrCanc	2.07E-08	0.00E+00
28	ALL		482050	3715550	2.13E-08	0.67YrCanc	2.13E-08	0.00E+00
29	ALL		482150	3715550	2.16E-08	0.67YrCanc	2.16E-08	0.00E+00
30	ALL		482250	3715550	2.23E-08	0.67YrCanc	2.23E-08	0.00E+00
31	ALL		482350	3715550	2.28E-08	0.67YrCanc	2.28E-08	0.00E+00
32	ALL		482550	3715550	2.40E-08	0.67YrCanc	2.40E-08	0.00E+00
33	ALL		482650	3715550	2.47E-08	0.67YrCanc	2.47E-08	0.00E+00
34	ALL		482750	3715550	2.53E-08	0.67YrCanc	2.53E-08	0.00E+00
35	ALL		482850	3715550	2.60E-08	0.67YrCanc	2.60E-08	0.00E+00
36	ALL		482950	3715550	2.69E-08	0.67YrCanc	2.69E-08	0.00E+00
37	ALL		483050	3715550	2.77E-08	0.67YrCanc	2.77E-08	0.00E+00
38	ALL		483150	3715550	2.84E-08	0.67YrCanc	2.84E-08	0.00E+00
39	ALL		483250	3715550	2.90E-08	0.67YrCanc	2.90E-08	0.00E+00
40	ALL		483350	3715550	2.95E-08	0.67YrCanc	2.95E-08	0.00E+00
41	ALL		483450	3715550	3.00E-08	0.67YrCanc	3.00E-08	0.00E+00
42	ALL		483550	3715550	3.05E-08	0.67YrCanc	3.05E-08	0.00E+00

43	ALL	483650	3715550	3.09E-08	0.67YrCanc	3.09E-08	0.00E+00
44	ALL	483750	3715550	3.13E-08	0.67YrCanc	3.13E-08	0.00E+00
45	ALL	483850	3715550	3.19E-08	0.67YrCanc	3.19E-08	0.00E+00
46	ALL	483950	3715550	3.22E-08	0.67YrCanc	3.22E-08	0.00E+00
47	ALL	484050	3715550	3.24E-08	0.67YrCanc	3.24E-08	0.00E+00
48	ALL	484250	3715550	3.25E-08	0.67YrCanc	3.25E-08	0.00E+00
49	ALL	484350	3715550	3.24E-08	0.67YrCanc	3.24E-08	0.00E+00
50	ALL	484450	3715550	3.25E-08	0.67YrCanc	3.25E-08	0.00E+00
51	ALL	484550	3715550	3.27E-08	0.67YrCanc	3.27E-08	0.00E+00
52	ALL	484950	3715550	3.51E-08	0.67YrCanc	3.51E-08	0.00E+00
53	ALL	485050	3715550	3.47E-08	0.67YrCanc	3.47E-08	0.00E+00
54	ALL	481950	3715650	2.13E-08	0.67YrCanc	2.13E-08	0.00E+00
55	ALL	482050	3715650	2.19E-08	0.67YrCanc	2.19E-08	0.00E+00
56	ALL	482150	3715650	2.25E-08	0.67YrCanc	2.25E-08	0.00E+00
57	ALL	482250	3715650	2.30E-08	0.67YrCanc	2.30E-08	0.00E+00
58	ALL	482350	3715650	2.36E-08	0.67YrCanc	2.36E-08	0.00E+00
59	ALL	482450	3715650	2.43E-08	0.67YrCanc	2.43E-08	0.00E+00
60	ALL	482650	3715650	2.57E-08	0.67YrCanc	2.57E-08	0.00E+00
61	ALL	482750	3715650	2.66E-08	0.67YrCanc	2.66E-08	0.00E+00
62	ALL	482850	3715650	2.73E-08	0.67YrCanc	2.73E-08	0.00E+00
63	ALL	482950	3715650	2.79E-08	0.67YrCanc	2.79E-08	0.00E+00
64	ALL	483050	3715650	2.88E-08	0.67YrCanc	2.88E-08	0.00E+00
65	ALL	483150	3715650	2.98E-08	0.67YrCanc	2.98E-08	0.00E+00
66	ALL	483250	3715650	3.06E-08	0.67YrCanc	3.06E-08	0.00E+00
67	ALL	483350	3715650	3.12E-08	0.67YrCanc	3.12E-08	0.00E+00
68	ALL	483450	3715650	3.17E-08	0.67YrCanc	3.17E-08	0.00E+00
69	ALL	483550	3715650	3.23E-08	0.67YrCanc	3.23E-08	0.00E+00
70	ALL	483650	3715650	3.26E-08	0.67YrCanc	3.26E-08	0.00E+00
71	ALL	483750	3715650	3.33E-08	0.67YrCanc	3.33E-08	0.00E+00
72	ALL	483850	3715650	3.35E-08	0.67YrCanc	3.35E-08	0.00E+00
73	ALL	483950	3715650	3.42E-08	0.67YrCanc	3.42E-08	0.00E+00
74	ALL	484050	3715650	3.41E-08	0.67YrCanc	3.41E-08	0.00E+00
75	ALL	484150	3715650	3.42E-08	0.67YrCanc	3.42E-08	0.00E+00
76	ALL	484350	3715650	3.47E-08	0.67YrCanc	3.47E-08	0.00E+00
77	ALL	484450	3715650	3.43E-08	0.67YrCanc	3.43E-08	0.00E+00
78	ALL	484550	3715650	3.44E-08	0.67YrCanc	3.44E-08	0.00E+00
79	ALL	484650	3715650	3.43E-08	0.67YrCanc	3.43E-08	0.00E+00
80	ALL	484750	3715650	3.43E-08	0.67YrCanc	3.43E-08	0.00E+00
81	ALL	484950	3715650	3.43E-08	0.67YrCanc	3.43E-08	0.00E+00
82	ALL	485050	3715650	3.39E-08	0.67YrCanc	3.39E-08	0.00E+00
83	ALL	481950	3715750	2.19E-08	0.67YrCanc	2.19E-08	0.00E+00
84	ALL	482050	3715750	2.26E-08	0.67YrCanc	2.26E-08	0.00E+00
85	ALL	482150	3715750	2.31E-08	0.67YrCanc	2.31E-08	0.00E+00
86	ALL	482250	3715750	2.37E-08	0.67YrCanc	2.37E-08	0.00E+00

87	ALL	482350	3715750	2.45E-08	0.67YrCanc	2.45E-08	0.00E+00
88	ALL	482450	3715750	2.53E-08	0.67YrCanc	2.53E-08	0.00E+00
89	ALL	482550	3715750	2.62E-08	0.67YrCanc	2.62E-08	0.00E+00
90	ALL	482750	3715750	2.76E-08	0.67YrCanc	2.76E-08	0.00E+00
91	ALL	482850	3715750	2.88E-08	0.67YrCanc	2.88E-08	0.00E+00
92	ALL	482950	3715750	2.94E-08	0.67YrCanc	2.94E-08	0.00E+00
93	ALL	483050	3715750	3.04E-08	0.67YrCanc	3.04E-08	0.00E+00
94	ALL	483150	3715750	3.15E-08	0.67YrCanc	3.15E-08	0.00E+00
95	ALL	483250	3715750	3.22E-08	0.67YrCanc	3.22E-08	0.00E+00
96	ALL	483350	3715750	3.31E-08	0.67YrCanc	3.31E-08	0.00E+00
97	ALL	483450	3715750	3.36E-08	0.67YrCanc	3.36E-08	0.00E+00
98	ALL	483550	3715750	3.43E-08	0.67YrCanc	3.43E-08	0.00E+00
99	ALL	483650	3715750	3.47E-08	0.67YrCanc	3.47E-08	0.00E+00
100	ALL	483750	3715750	3.54E-08	0.67YrCanc	3.54E-08	0.00E+00
101	ALL	483850	3715750	3.58E-08	0.67YrCanc	3.58E-08	0.00E+00
102	ALL	483950	3715750	3.62E-08	0.67YrCanc	3.62E-08	0.00E+00
103	ALL	484050	3715750	3.66E-08	0.67YrCanc	3.66E-08	0.00E+00
104	ALL	484150	3715750	3.66E-08	0.67YrCanc	3.66E-08	0.00E+00
105	ALL	484250	3715750	3.64E-08	0.67YrCanc	3.64E-08	0.00E+00
106	ALL	484550	3715750	3.63E-08	0.67YrCanc	3.63E-08	0.00E+00
107	ALL	484650	3715750	3.61E-08	0.67YrCanc	3.61E-08	0.00E+00
108	ALL	484750	3715750	3.59E-08	0.67YrCanc	3.59E-08	0.00E+00
109	ALL	484850	3715750	3.55E-08	0.67YrCanc	3.55E-08	0.00E+00
110	ALL	484950	3715750	3.52E-08	0.67YrCanc	3.52E-08	0.00E+00
111	ALL	485050	3715750	3.48E-08	0.67YrCanc	3.48E-08	0.00E+00
112	ALL	481950	3715850	2.26E-08	0.67YrCanc	2.26E-08	0.00E+00
113	ALL	482050	3715850	2.33E-08	0.67YrCanc	2.33E-08	0.00E+00
114	ALL	482150	3715850	2.39E-08	0.67YrCanc	2.39E-08	0.00E+00
115	ALL	482250	3715850	2.47E-08	0.67YrCanc	2.47E-08	0.00E+00
116	ALL	482350	3715850	2.55E-08	0.67YrCanc	2.55E-08	0.00E+00
117	ALL	482450	3715850	2.64E-08	0.67YrCanc	2.64E-08	0.00E+00
118	ALL	482550	3715850	2.72E-08	0.67YrCanc	2.72E-08	0.00E+00
119	ALL	482650	3715850	2.82E-08	0.67YrCanc	2.82E-08	0.00E+00
120	ALL	482750	3715850	2.92E-08	0.67YrCanc	2.92E-08	0.00E+00
121	ALL	482850	3715850	3.01E-08	0.67YrCanc	3.01E-08	0.00E+00
122	ALL	482950	3715850	3.11E-08	0.67YrCanc	3.11E-08	0.00E+00
123	ALL	483050	3715850	3.19E-08	0.67YrCanc	3.19E-08	0.00E+00
124	ALL	483150	3715850	3.32E-08	0.67YrCanc	3.32E-08	0.00E+00
125	ALL	483350	3715850	3.50E-08	0.67YrCanc	3.50E-08	0.00E+00
126	ALL	483450	3715850	3.57E-08	0.67YrCanc	3.57E-08	0.00E+00
127	ALL	483550	3715850	3.65E-08	0.67YrCanc	3.65E-08	0.00E+00
128	ALL	483650	3715850	3.71E-08	0.67YrCanc	3.71E-08	0.00E+00
129	ALL	483750	3715850	3.80E-08	0.67YrCanc	3.80E-08	0.00E+00
130	ALL	483850	3715850	3.85E-08	0.67YrCanc	3.85E-08	0.00E+00

131	ALL	483950	3715850	3.87E-08	0.67YrCanc	3.87E-08	0.00E+00
132	ALL	484050	3715850	3.93E-08	0.67YrCanc	3.93E-08	0.00E+00
133	ALL	484150	3715850	3.92E-08	0.67YrCanc	3.92E-08	0.00E+00
134	ALL	484250	3715850	3.91E-08	0.67YrCanc	3.91E-08	0.00E+00
135	ALL	484550	3715850	3.89E-08	0.67YrCanc	3.89E-08	0.00E+00
136	ALL	484650	3715850	3.84E-08	0.67YrCanc	3.84E-08	0.00E+00
137	ALL	484750	3715850	3.80E-08	0.67YrCanc	3.80E-08	0.00E+00
138	ALL	484850	3715850	3.75E-08	0.67YrCanc	3.75E-08	0.00E+00
139	ALL	485150	3715850	3.61E-08	0.67YrCanc	3.61E-08	0.00E+00
140	ALL	485250	3715850	3.60E-08	0.67YrCanc	3.60E-08	0.00E+00
141	ALL	481950	3715950	2.33E-08	0.67YrCanc	2.33E-08	0.00E+00
142	ALL	482050	3715950	2.39E-08	0.67YrCanc	2.39E-08	0.00E+00
143	ALL	482150	3715950	2.48E-08	0.67YrCanc	2.48E-08	0.00E+00
144	ALL	482250	3715950	2.57E-08	0.67YrCanc	2.57E-08	0.00E+00
145	ALL	482350	3715950	2.66E-08	0.67YrCanc	2.66E-08	0.00E+00
146	ALL	482450	3715950	2.74E-08	0.67YrCanc	2.74E-08	0.00E+00
147	ALL	482550	3715950	2.85E-08	0.67YrCanc	2.85E-08	0.00E+00
148	ALL	482650	3715950	2.94E-08	0.67YrCanc	2.94E-08	0.00E+00
149	ALL	482750	3715950	3.04E-08	0.67YrCanc	3.04E-08	0.00E+00
150	ALL	482850	3715950	3.15E-08	0.67YrCanc	3.15E-08	0.00E+00
151	ALL	482950	3715950	3.28E-08	0.67YrCanc	3.28E-08	0.00E+00
152	ALL	483050	3715950	3.40E-08	0.67YrCanc	3.40E-08	0.00E+00
153	ALL	483350	3715950	3.72E-08	0.67YrCanc	3.72E-08	0.00E+00
154	ALL	483450	3715950	3.83E-08	0.67YrCanc	3.83E-08	0.00E+00
155	ALL	483550	3715950	3.90E-08	0.67YrCanc	3.90E-08	0.00E+00
156	ALL	483650	3715950	3.98E-08	0.67YrCanc	3.98E-08	0.00E+00
157	ALL	483750	3715950	4.04E-08	0.67YrCanc	4.04E-08	0.00E+00
158	ALL	483850	3715950	4.15E-08	0.67YrCanc	4.15E-08	0.00E+00
159	ALL	483950	3715950	4.15E-08	0.67YrCanc	4.15E-08	0.00E+00
160	ALL	484050	3715950	4.21E-08	0.67YrCanc	4.21E-08	0.00E+00
161	ALL	484150	3715950	4.24E-08	0.67YrCanc	4.24E-08	0.00E+00
162	ALL	484250	3715950	4.22E-08	0.67YrCanc	4.22E-08	0.00E+00
163	ALL	484850	3715950	3.99E-08	0.67YrCanc	3.99E-08	0.00E+00
164	ALL	485150	3715950	3.82E-08	0.67YrCanc	3.82E-08	0.00E+00
165	ALL	485250	3715950	3.82E-08	0.67YrCanc	3.82E-08	0.00E+00
166	ALL	481950	3716050	2.40E-08	0.67YrCanc	2.40E-08	0.00E+00
167	ALL	482050	3716050	2.48E-08	0.67YrCanc	2.48E-08	0.00E+00
168	ALL	482150	3716050	2.57E-08	0.67YrCanc	2.57E-08	0.00E+00
169	ALL	482250	3716050	2.67E-08	0.67YrCanc	2.67E-08	0.00E+00
170	ALL	482350	3716050	2.76E-08	0.67YrCanc	2.76E-08	0.00E+00
171	ALL	482450	3716050	2.86E-08	0.67YrCanc	2.86E-08	0.00E+00
172	ALL	482550	3716050	2.97E-08	0.67YrCanc	2.97E-08	0.00E+00
173	ALL	482650	3716050	3.08E-08	0.67YrCanc	3.08E-08	0.00E+00
174	ALL	482750	3716050	3.18E-08	0.67YrCanc	3.18E-08	0.00E+00

175	ALL	482850	3716050	3.32E-08	0.67YrCanc	3.32E-08	0.00E+00
176	ALL	482950	3716050	3.45E-08	0.67YrCanc	3.45E-08	0.00E+00
177	ALL	483050	3716050	3.58E-08	0.67YrCanc	3.58E-08	0.00E+00
178	ALL	483150	3716050	3.70E-08	0.67YrCanc	3.70E-08	0.00E+00
179	ALL	483350	3716050	3.96E-08	0.67YrCanc	3.96E-08	0.00E+00
180	ALL	483450	3716050	4.09E-08	0.67YrCanc	4.09E-08	0.00E+00
181	ALL	483550	3716050	4.19E-08	0.67YrCanc	4.19E-08	0.00E+00
182	ALL	483650	3716050	4.26E-08	0.67YrCanc	4.26E-08	0.00E+00
183	ALL	483750	3716050	4.38E-08	0.67YrCanc	4.38E-08	0.00E+00
184	ALL	483850	3716050	4.47E-08	0.67YrCanc	4.47E-08	0.00E+00
185	ALL	483950	3716050	4.51E-08	0.67YrCanc	4.51E-08	0.00E+00
186	ALL	484050	3716050	4.54E-08	0.67YrCanc	4.54E-08	0.00E+00
187	ALL	484150	3716050	4.59E-08	0.67YrCanc	4.59E-08	0.00E+00
188	ALL	484250	3716050	4.56E-08	0.67YrCanc	4.56E-08	0.00E+00
189	ALL	484450	3716050	4.48E-08	0.67YrCanc	4.48E-08	0.00E+00
190	ALL	484750	3716050	4.33E-08	0.67YrCanc	4.33E-08	0.00E+00
191	ALL	484850	3716050	4.26E-08	0.67YrCanc	4.26E-08	0.00E+00
192	ALL	485050	3716050	4.11E-08	0.67YrCanc	4.11E-08	0.00E+00
193	ALL	485150	3716050	4.04E-08	0.67YrCanc	4.04E-08	0.00E+00
194	ALL	485250	3716050	4.01E-08	0.67YrCanc	4.01E-08	0.00E+00
195	ALL	485350	3716050	3.88E-08	0.67YrCanc	3.88E-08	0.00E+00
196	ALL	485450	3716050	3.81E-08	0.67YrCanc	3.81E-08	0.00E+00
197	ALL	481950	3716150	2.48E-08	0.67YrCanc	2.48E-08	0.00E+00
198	ALL	482050	3716150	2.57E-08	0.67YrCanc	2.57E-08	0.00E+00
199	ALL	482150	3716150	2.66E-08	0.67YrCanc	2.66E-08	0.00E+00
200	ALL	482250	3716150	2.76E-08	0.67YrCanc	2.76E-08	0.00E+00
201	ALL	482350	3716150	2.87E-08	0.67YrCanc	2.87E-08	0.00E+00
202	ALL	482450	3716150	2.98E-08	0.67YrCanc	2.98E-08	0.00E+00
203	ALL	482550	3716150	3.10E-08	0.67YrCanc	3.10E-08	0.00E+00
204	ALL	482650	3716150	3.23E-08	0.67YrCanc	3.23E-08	0.00E+00
205	ALL	482750	3716150	3.35E-08	0.67YrCanc	3.35E-08	0.00E+00
206	ALL	482850	3716150	3.49E-08	0.67YrCanc	3.49E-08	0.00E+00
207	ALL	482950	3716150	3.64E-08	0.67YrCanc	3.64E-08	0.00E+00
208	ALL	483050	3716150	3.80E-08	0.67YrCanc	3.80E-08	0.00E+00
209	ALL	483150	3716150	3.93E-08	0.67YrCanc	3.93E-08	0.00E+00
210	ALL	483450	3716150	4.39E-08	0.67YrCanc	4.39E-08	0.00E+00
211	ALL	483550	3716150	4.52E-08	0.67YrCanc	4.52E-08	0.00E+00
212	ALL	483650	3716150	4.61E-08	0.67YrCanc	4.61E-08	0.00E+00
213	ALL	483750	3716150	4.75E-08	0.67YrCanc	4.75E-08	0.00E+00
214	ALL	483850	3716150	4.84E-08	0.67YrCanc	4.84E-08	0.00E+00
215	ALL	483950	3716150	4.91E-08	0.67YrCanc	4.91E-08	0.00E+00
216	ALL	484150	3716150	4.99E-08	0.67YrCanc	4.99E-08	0.00E+00
217	ALL	484250	3716150	4.96E-08	0.67YrCanc	4.96E-08	0.00E+00
218	ALL	484350	3716150	4.94E-08	0.67YrCanc	4.94E-08	0.00E+00

219	ALL	484450	3716150	4.88E-08	0.67YrCanc	4.88E-08	0.00E+00
220	ALL	484850	3716150	4.57E-08	0.67YrCanc	4.57E-08	0.00E+00
221	ALL	484950	3716150	4.48E-08	0.67YrCanc	4.48E-08	0.00E+00
222	ALL	485150	3716150	4.28E-08	0.67YrCanc	4.28E-08	0.00E+00
223	ALL	485250	3716150	4.17E-08	0.67YrCanc	4.17E-08	0.00E+00
224	ALL	485350	3716150	4.07E-08	0.67YrCanc	4.07E-08	0.00E+00
225	ALL	485450	3716150	3.97E-08	0.67YrCanc	3.97E-08	0.00E+00
226	ALL	481950	3716250	2.55E-08	0.67YrCanc	2.55E-08	0.00E+00
227	ALL	482050	3716250	2.66E-08	0.67YrCanc	2.66E-08	0.00E+00
228	ALL	482150	3716250	2.77E-08	0.67YrCanc	2.77E-08	0.00E+00
229	ALL	482250	3716250	2.87E-08	0.67YrCanc	2.87E-08	0.00E+00
230	ALL	482350	3716250	2.99E-08	0.67YrCanc	2.99E-08	0.00E+00
231	ALL	482450	3716250	3.11E-08	0.67YrCanc	3.11E-08	0.00E+00
232	ALL	482550	3716250	3.24E-08	0.67YrCanc	3.24E-08	0.00E+00
233	ALL	482650	3716250	3.38E-08	0.67YrCanc	3.38E-08	0.00E+00
234	ALL	482750	3716250	3.53E-08	0.67YrCanc	3.53E-08	0.00E+00
235	ALL	482850	3716250	3.69E-08	0.67YrCanc	3.69E-08	0.00E+00
236	ALL	482950	3716250	3.86E-08	0.67YrCanc	3.86E-08	0.00E+00
237	ALL	483050	3716250	4.03E-08	0.67YrCanc	4.03E-08	0.00E+00
238	ALL	483150	3716250	4.20E-08	0.67YrCanc	4.20E-08	0.00E+00
239	ALL	483450	3716250	4.72E-08	0.67YrCanc	4.72E-08	0.00E+00
240	ALL	483550	3716250	4.89E-08	0.67YrCanc	4.89E-08	0.00E+00
241	ALL	483650	3716250	5.03E-08	0.67YrCanc	5.03E-08	0.00E+00
242	ALL	483750	3716250	5.17E-08	0.67YrCanc	5.17E-08	0.00E+00
243	ALL	483850	3716250	5.28E-08	0.67YrCanc	5.28E-08	0.00E+00
244	ALL	483950	3716250	5.36E-08	0.67YrCanc	5.36E-08	0.00E+00
245	ALL	484150	3716250	5.52E-08	0.67YrCanc	5.52E-08	0.00E+00
246	ALL	484850	3716250	4.95E-08	0.67YrCanc	4.95E-08	0.00E+00
247	ALL	484950	3716250	4.84E-08	0.67YrCanc	4.84E-08	0.00E+00
248	ALL	485050	3716250	4.67E-08	0.67YrCanc	4.67E-08	0.00E+00
249	ALL	485150	3716250	4.55E-08	0.67YrCanc	4.55E-08	0.00E+00
250	ALL	485250	3716250	4.42E-08	0.67YrCanc	4.42E-08	0.00E+00
251	ALL	485350	3716250	4.30E-08	0.67YrCanc	4.30E-08	0.00E+00
252	ALL	481950	3716350	2.63E-08	0.67YrCanc	2.63E-08	0.00E+00
253	ALL	482050	3716350	2.75E-08	0.67YrCanc	2.75E-08	0.00E+00
254	ALL	482150	3716350	2.87E-08	0.67YrCanc	2.87E-08	0.00E+00
255	ALL	482250	3716350	3.01E-08	0.67YrCanc	3.01E-08	0.00E+00
256	ALL	482350	3716350	3.12E-08	0.67YrCanc	3.12E-08	0.00E+00
257	ALL	482450	3716350	3.25E-08	0.67YrCanc	3.25E-08	0.00E+00
258	ALL	482550	3716350	3.40E-08	0.67YrCanc	3.40E-08	0.00E+00
259	ALL	482650	3716350	3.55E-08	0.67YrCanc	3.55E-08	0.00E+00
260	ALL	482750	3716350	3.72E-08	0.67YrCanc	3.72E-08	0.00E+00
261	ALL	482850	3716350	3.90E-08	0.67YrCanc	3.90E-08	0.00E+00
262	ALL	482950	3716350	4.09E-08	0.67YrCanc	4.09E-08	0.00E+00

263	ALL	483050	3716350	4.29E-08	0.67YrCanc	4.29E-08	0.00E+00
264	ALL	483150	3716350	4.50E-08	0.67YrCanc	4.50E-08	0.00E+00
265	ALL	483450	3716350	5.12E-08	0.67YrCanc	5.12E-08	0.00E+00
266	ALL	483550	3716350	5.32E-08	0.67YrCanc	5.32E-08	0.00E+00
267	ALL	483650	3716350	5.50E-08	0.67YrCanc	5.50E-08	0.00E+00
268	ALL	483750	3716350	5.67E-08	0.67YrCanc	5.67E-08	0.00E+00
269	ALL	483850	3716350	5.81E-08	0.67YrCanc	5.81E-08	0.00E+00
270	ALL	483950	3716350	5.91E-08	0.67YrCanc	5.91E-08	0.00E+00
271	ALL	484850	3716350	5.35E-08	0.67YrCanc	5.35E-08	0.00E+00
272	ALL	484950	3716350	5.25E-08	0.67YrCanc	5.25E-08	0.00E+00
273	ALL	481950	3716450	2.73E-08	0.67YrCanc	2.73E-08	0.00E+00
274	ALL	482550	3716450	3.57E-08	0.67YrCanc	3.57E-08	0.00E+00
275	ALL	482650	3716450	3.74E-08	0.67YrCanc	3.74E-08	0.00E+00
276	ALL	482750	3716450	3.93E-08	0.67YrCanc	3.93E-08	0.00E+00
277	ALL	482850	3716450	4.11E-08	0.67YrCanc	4.11E-08	0.00E+00
278	ALL	482950	3716450	4.36E-08	0.67YrCanc	4.36E-08	0.00E+00
279	ALL	483050	3716450	4.61E-08	0.67YrCanc	4.61E-08	0.00E+00
280	ALL	483150	3716450	4.84E-08	0.67YrCanc	4.84E-08	0.00E+00
281	ALL	483450	3716450	5.60E-08	0.67YrCanc	5.60E-08	0.00E+00
282	ALL	483550	3716450	5.84E-08	0.67YrCanc	5.84E-08	0.00E+00
283	ALL	483650	3716450	6.06E-08	0.67YrCanc	6.06E-08	0.00E+00
284	ALL	483750	3716450	6.26E-08	0.67YrCanc	6.26E-08	0.00E+00
285	ALL	483850	3716450	6.45E-08	0.67YrCanc	6.45E-08	0.00E+00
286	ALL	483950	3716450	6.58E-08	0.67YrCanc	6.58E-08	0.00E+00
287	ALL	484050	3716450	6.66E-08	0.67YrCanc	6.66E-08	0.00E+00
288	ALL	485150	3716450	5.25E-08	0.67YrCanc	5.25E-08	0.00E+00
289	ALL	482650	3716550	3.97E-08	0.67YrCanc	3.97E-08	0.00E+00
290	ALL	482750	3716550	4.17E-08	0.67YrCanc	4.17E-08	0.00E+00
291	ALL	482850	3716550	4.37E-08	0.67YrCanc	4.37E-08	0.00E+00
292	ALL	482950	3716550	4.68E-08	0.67YrCanc	4.68E-08	0.00E+00
293	ALL	483450	3716550	6.15E-08	0.67YrCanc	6.15E-08	0.00E+00
294	ALL	483550	3716550	6.47E-08	0.67YrCanc	6.47E-08	0.00E+00
295	ALL	483650	3716550	6.74E-08	0.67YrCanc	6.74E-08	0.00E+00
296	ALL	483750	3716550	7.02E-08	0.67YrCanc	7.02E-08	0.00E+00
297	ALL	483850	3716550	7.25E-08	0.67YrCanc	7.25E-08	0.00E+00
298	ALL	483950	3716550	7.42E-08	0.67YrCanc	7.42E-08	0.00E+00
299	ALL	484050	3716550	7.51E-08	0.67YrCanc	7.51E-08	0.00E+00
300	ALL	484950	3716550	6.06E-08	0.67YrCanc	6.06E-08	0.00E+00
301	ALL	485050	3716550	5.90E-08	0.67YrCanc	5.90E-08	0.00E+00
302	ALL	485150	3716550	5.69E-08	0.67YrCanc	5.69E-08	0.00E+00
303	ALL	482850	3716650	4.65E-08	0.67YrCanc	4.65E-08	0.00E+00
304	ALL	482950	3716650	4.98E-08	0.67YrCanc	4.98E-08	0.00E+00
305	ALL	483450	3716650	6.75E-08	0.67YrCanc	6.75E-08	0.00E+00
306	ALL	483550	3716650	7.19E-08	0.67YrCanc	7.19E-08	0.00E+00

307	ALL	483650	3716650	7.60E-08	0.67YrCanc	7.60E-08	0.00E+00
308	ALL	483750	3716650	7.98E-08	0.67YrCanc	7.98E-08	0.00E+00
309	ALL	483850	3716650	8.23E-08	0.67YrCanc	8.23E-08	0.00E+00
310	ALL	483950	3716650	8.48E-08	0.67YrCanc	8.48E-08	0.00E+00
311	ALL	484050	3716650	8.61E-08	0.67YrCanc	8.61E-08	0.00E+00
312	ALL	485250	3716650	5.63E-08	0.67YrCanc	5.63E-08	0.00E+00
313	ALL	481950	3716750	2.92E-08	0.67YrCanc	2.92E-08	0.00E+00
314	ALL	482650	3716750	4.42E-08	0.67YrCanc	4.42E-08	0.00E+00
315	ALL	482750	3716750	4.71E-08	0.67YrCanc	4.71E-08	0.00E+00
316	ALL	482850	3716750	4.95E-08	0.67YrCanc	4.95E-08	0.00E+00
317	ALL	482950	3716750	5.34E-08	0.67YrCanc	5.34E-08	0.00E+00
318	ALL	483050	3716750	5.72E-08	0.67YrCanc	5.72E-08	0.00E+00
319	ALL	483150	3716750	6.18E-08	0.67YrCanc	6.18E-08	0.00E+00
320	ALL	483450	3716750	7.53E-08	0.67YrCanc	7.53E-08	0.00E+00
321	ALL	483550	3716750	8.10E-08	0.67YrCanc	8.10E-08	0.00E+00
322	ALL	483650	3716750	8.75E-08	0.67YrCanc	8.75E-08	0.00E+00
323	ALL	483750	3716750	9.23E-08	0.67YrCanc	9.23E-08	0.00E+00
324	ALL	483850	3716750	9.52E-08	0.67YrCanc	9.52E-08	0.00E+00
325	ALL	483950	3716750	9.83E-08	0.67YrCanc	9.83E-08	0.00E+00
326	ALL	484050	3716750	1.00E-07	0.67YrCanc	1.00E-07	0.00E+00
327	ALL	485150	3716750	6.33E-08	0.67YrCanc	6.33E-08	0.00E+00
328	ALL	485250	3716750	5.92E-08	0.67YrCanc	5.92E-08	0.00E+00
329	ALL	485350	3716750	5.55E-08	0.67YrCanc	5.55E-08	0.00E+00
330	ALL	485450	3716750	5.19E-08	0.67YrCanc	5.19E-08	0.00E+00
331	ALL	485550	3716750	4.89E-08	0.67YrCanc	4.89E-08	0.00E+00
332	ALL	485650	3716750	4.53E-08	0.67YrCanc	4.53E-08	0.00E+00
333	ALL	481950	3716850	2.99E-08	0.67YrCanc	2.99E-08	0.00E+00
334	ALL	482050	3716850	3.15E-08	0.67YrCanc	3.15E-08	0.00E+00
335	ALL	482150	3716850	3.32E-08	0.67YrCanc	3.32E-08	0.00E+00
336	ALL	482650	3716850	4.65E-08	0.67YrCanc	4.65E-08	0.00E+00
337	ALL	482750	3716850	4.96E-08	0.67YrCanc	4.96E-08	0.00E+00
338	ALL	482850	3716850	5.30E-08	0.67YrCanc	5.30E-08	0.00E+00
339	ALL	482950	3716850	5.74E-08	0.67YrCanc	5.74E-08	0.00E+00
340	ALL	483050	3716850	6.25E-08	0.67YrCanc	6.25E-08	0.00E+00
341	ALL	483150	3716850	6.72E-08	0.67YrCanc	6.72E-08	0.00E+00
342	ALL	483250	3716850	7.22E-08	0.67YrCanc	7.22E-08	0.00E+00
343	ALL	484050	3716850	1.20E-07	0.67YrCanc	1.20E-07	0.00E+00
344	ALL	485550	3716850	5.01E-08	0.67YrCanc	5.01E-08	0.00E+00
345	ALL	485650	3716850	4.64E-08	0.67YrCanc	4.64E-08	0.00E+00
346	ALL	481950	3716950	3.06E-08	0.67YrCanc	3.06E-08	0.00E+00
347	ALL	482050	3716950	3.22E-08	0.67YrCanc	3.22E-08	0.00E+00
348	ALL	482150	3716950	3.41E-08	0.67YrCanc	3.41E-08	0.00E+00
349	ALL	482250	3716950	3.63E-08	0.67YrCanc	3.63E-08	0.00E+00
350	ALL	482350	3716950	3.86E-08	0.67YrCanc	3.86E-08	0.00E+00

351	ALL	482450	3716950	4.13E-08	0.67YrCanc	4.13E-08	0.00E+00
352	ALL	483150	3716950	7.31E-08	0.67YrCanc	7.31E-08	0.00E+00
353	ALL	483250	3716950	7.96E-08	0.67YrCanc	7.96E-08	0.00E+00
354	ALL	485550	3716950	5.10E-08	0.67YrCanc	5.10E-08	0.00E+00
355	ALL	485650	3716950	4.72E-08	0.67YrCanc	4.72E-08	0.00E+00
356	ALL	481950	3717050	3.12E-08	0.67YrCanc	3.12E-08	0.00E+00
357	ALL	482050	3717050	3.30E-08	0.67YrCanc	3.30E-08	0.00E+00
358	ALL	482150	3717050	3.50E-08	0.67YrCanc	3.50E-08	0.00E+00
359	ALL	482250	3717050	3.73E-08	0.67YrCanc	3.73E-08	0.00E+00
360	ALL	482350	3717050	3.98E-08	0.67YrCanc	3.98E-08	0.00E+00
361	ALL	482450	3717050	4.26E-08	0.67YrCanc	4.26E-08	0.00E+00
362	ALL	482550	3717050	4.58E-08	0.67YrCanc	4.58E-08	0.00E+00
363	ALL	482650	3717050	4.95E-08	0.67YrCanc	4.95E-08	0.00E+00
364	ALL	482850	3717050	5.89E-08	0.67YrCanc	5.89E-08	0.00E+00
365	ALL	482950	3717050	6.54E-08	0.67YrCanc	6.54E-08	0.00E+00
366	ALL	483250	3717050	8.90E-08	0.67YrCanc	8.90E-08	0.00E+00
367	ALL	485350	3717050	6.17E-08	0.67YrCanc	6.17E-08	0.00E+00
368	ALL	485450	3717050	5.68E-08	0.67YrCanc	5.68E-08	0.00E+00
369	ALL	485550	3717050	5.20E-08	0.67YrCanc	5.20E-08	0.00E+00
370	ALL	485650	3717050	4.80E-08	0.67YrCanc	4.80E-08	0.00E+00
371	ALL	486250	3717050	2.96E-08	0.67YrCanc	2.96E-08	0.00E+00
372	ALL	481950	3717150	3.17E-08	0.67YrCanc	3.17E-08	0.00E+00
373	ALL	482050	3717150	3.37E-08	0.67YrCanc	3.37E-08	0.00E+00
374	ALL	482150	3717150	3.60E-08	0.67YrCanc	3.60E-08	0.00E+00
375	ALL	482250	3717150	3.81E-08	0.67YrCanc	3.81E-08	0.00E+00
376	ALL	482350	3717150	4.08E-08	0.67YrCanc	4.08E-08	0.00E+00
377	ALL	482450	3717150	4.40E-08	0.67YrCanc	4.40E-08	0.00E+00
378	ALL	482550	3717150	4.72E-08	0.67YrCanc	4.72E-08	0.00E+00
379	ALL	482650	3717150	5.14E-08	0.67YrCanc	5.14E-08	0.00E+00
380	ALL	482750	3717150	5.62E-08	0.67YrCanc	5.62E-08	0.00E+00
381	ALL	482850	3717150	6.15E-08	0.67YrCanc	6.15E-08	0.00E+00
382	ALL	482950	3717150	6.82E-08	0.67YrCanc	6.82E-08	0.00E+00
383	ALL	483050	3717150	7.68E-08	0.67YrCanc	7.68E-08	0.00E+00
384	ALL	485350	3717150	6.35E-08	0.67YrCanc	6.35E-08	0.00E+00
385	ALL	485450	3717150	5.78E-08	0.67YrCanc	5.78E-08	0.00E+00
386	ALL	485550	3717150	5.26E-08	0.67YrCanc	5.26E-08	0.00E+00
387	ALL	485650	3717150	4.84E-08	0.67YrCanc	4.84E-08	0.00E+00
388	ALL	481950	3717250	3.23E-08	0.67YrCanc	3.23E-08	0.00E+00
389	ALL	482050	3717250	3.42E-08	0.67YrCanc	3.42E-08	0.00E+00
390	ALL	482150	3717250	3.65E-08	0.67YrCanc	3.65E-08	0.00E+00
391	ALL	482250	3717250	3.93E-08	0.67YrCanc	3.93E-08	0.00E+00
392	ALL	482350	3717250	4.21E-08	0.67YrCanc	4.21E-08	0.00E+00
393	ALL	482450	3717250	4.51E-08	0.67YrCanc	4.51E-08	0.00E+00
394	ALL	482550	3717250	4.87E-08	0.67YrCanc	4.87E-08	0.00E+00

395	ALL	482650	3717250	5.31E-08	0.67YrCanc	5.31E-08	0.00E+00
396	ALL	482750	3717250	5.85E-08	0.67YrCanc	5.85E-08	0.00E+00
397	ALL	482850	3717250	6.45E-08	0.67YrCanc	6.45E-08	0.00E+00
398	ALL	482950	3717250	7.15E-08	0.67YrCanc	7.15E-08	0.00E+00
399	ALL	483050	3717250	8.08E-08	0.67YrCanc	8.08E-08	0.00E+00
400	ALL	483150	3717250	9.25E-08	0.67YrCanc	9.25E-08	0.00E+00
401	ALL	483250	3717250	1.07E-07	0.67YrCanc	1.07E-07	0.00E+00
402	ALL	483350	3717250	1.25E-07	0.67YrCanc	1.25E-07	0.00E+00
403	ALL	483450	3717250	1.46E-07	0.67YrCanc	1.46E-07	0.00E+00
404	ALL	483850	3717250	2.89E-07	0.67YrCanc	2.89E-07	0.00E+00
405	ALL	483950	3717250	3.24E-07	0.67YrCanc	3.24E-07	0.00E+00
406	ALL	486150	3717250	3.53E-08	0.67YrCanc	3.53E-08	0.00E+00
407	ALL	486250	3717250	3.34E-08	0.67YrCanc	3.34E-08	0.00E+00
408	ALL	481950	3717350	3.28E-08	0.67YrCanc	3.28E-08	0.00E+00
409	ALL	482050	3717350	3.48E-08	0.67YrCanc	3.48E-08	0.00E+00
410	ALL	482150	3717350	3.70E-08	0.67YrCanc	3.70E-08	0.00E+00
411	ALL	482250	3717350	3.97E-08	0.67YrCanc	3.97E-08	0.00E+00
412	ALL	482350	3717350	4.28E-08	0.67YrCanc	4.28E-08	0.00E+00
413	ALL	482450	3717350	4.62E-08	0.67YrCanc	4.62E-08	0.00E+00
414	ALL	482550	3717350	5.00E-08	0.67YrCanc	5.00E-08	0.00E+00
415	ALL	482650	3717350	5.48E-08	0.67YrCanc	5.48E-08	0.00E+00
416	ALL	482750	3717350	6.06E-08	0.67YrCanc	6.06E-08	0.00E+00
417	ALL	482850	3717350	6.71E-08	0.67YrCanc	6.71E-08	0.00E+00
418	ALL	482950	3717350	7.49E-08	0.67YrCanc	7.49E-08	0.00E+00
419	ALL	483050	3717350	8.53E-08	0.67YrCanc	8.53E-08	0.00E+00
420	ALL	483150	3717350	9.84E-08	0.67YrCanc	9.84E-08	0.00E+00
421	ALL	483250	3717350	1.15E-07	0.67YrCanc	1.15E-07	0.00E+00
422	ALL	483350	3717350	1.38E-07	0.67YrCanc	1.38E-07	0.00E+00
423	ALL	483450	3717350	1.67E-07	0.67YrCanc	1.67E-07	0.00E+00
424	ALL	483850	3717350	4.19E-07	0.67YrCanc	4.19E-07	0.00E+00
425	ALL	483950	3717350	4.93E-07	0.67YrCanc	4.93E-07	0.00E+00
426	ALL	484050	3717350	5.22E-07	0.67YrCanc	5.22E-07	0.00E+00
427	ALL	484650	3717350	1.90E-07	0.67YrCanc	1.90E-07	0.00E+00
428	ALL	484750	3717350	1.56E-07	0.67YrCanc	1.56E-07	0.00E+00
429	ALL	486050	3717350	3.71E-08	0.67YrCanc	3.71E-08	0.00E+00
430	ALL	486150	3717350	3.50E-08	0.67YrCanc	3.50E-08	0.00E+00
431	ALL	486250	3717350	3.31E-08	0.67YrCanc	3.31E-08	0.00E+00
432	ALL	481950	3717450	3.33E-08	0.67YrCanc	3.33E-08	0.00E+00
433	ALL	482050	3717450	3.54E-08	0.67YrCanc	3.54E-08	0.00E+00
434	ALL	482150	3717450	3.76E-08	0.67YrCanc	3.76E-08	0.00E+00
435	ALL	482250	3717450	4.05E-08	0.67YrCanc	4.05E-08	0.00E+00
436	ALL	482350	3717450	4.34E-08	0.67YrCanc	4.34E-08	0.00E+00
437	ALL	482450	3717450	4.70E-08	0.67YrCanc	4.70E-08	0.00E+00
438	ALL	482750	3717450	6.25E-08	0.67YrCanc	6.25E-08	0.00E+00

439	ALL	482850	3717450	6.95E-08	0.67YrCanc	6.95E-08	0.00E+00
440	ALL	482950	3717450	7.81E-08	0.67YrCanc	7.81E-08	0.00E+00
441	ALL	483050	3717450	8.93E-08	0.67YrCanc	8.93E-08	0.00E+00
442	ALL	483150	3717450	1.04E-07	0.67YrCanc	1.04E-07	0.00E+00
443	ALL	483250	3717450	1.24E-07	0.67YrCanc	1.24E-07	0.00E+00
444	ALL	483350	3717450	1.51E-07	0.67YrCanc	1.51E-07	0.00E+00
445	ALL	483450	3717450	1.90E-07	0.67YrCanc	1.90E-07	0.00E+00
446	ALL	483550	3717450	2.47E-07	0.67YrCanc	2.47E-07	0.00E+00
447	ALL	483850	3717450	6.54E-07	0.67YrCanc	6.54E-07	0.00E+00
448	ALL	483950	3717450	8.69E-07	0.67YrCanc	8.69E-07	0.00E+00
449	ALL	484050	3717450	9.35E-07	0.67YrCanc	9.35E-07	0.00E+00
450	ALL	484550	3717450	2.68E-07	0.67YrCanc	2.68E-07	0.00E+00
451	ALL	484650	3717450	2.09E-07	0.67YrCanc	2.09E-07	0.00E+00
452	ALL	484750	3717450	1.67E-07	0.67YrCanc	1.67E-07	0.00E+00
453	ALL	481950	3717550	3.39E-08	0.67YrCanc	3.39E-08	0.00E+00
454	ALL	482050	3717550	3.60E-08	0.67YrCanc	3.60E-08	0.00E+00
455	ALL	482150	3717550	3.84E-08	0.67YrCanc	3.84E-08	0.00E+00
456	ALL	482250	3717550	4.10E-08	0.67YrCanc	4.10E-08	0.00E+00
457	ALL	482350	3717550	4.42E-08	0.67YrCanc	4.42E-08	0.00E+00
458	ALL	482450	3717550	4.79E-08	0.67YrCanc	4.79E-08	0.00E+00
459	ALL	482750	3717550	6.38E-08	0.67YrCanc	6.38E-08	0.00E+00
460	ALL	482850	3717550	7.12E-08	0.67YrCanc	7.12E-08	0.00E+00
461	ALL	482950	3717550	8.04E-08	0.67YrCanc	8.04E-08	0.00E+00
462	ALL	483050	3717550	9.26E-08	0.67YrCanc	9.26E-08	0.00E+00
463	ALL	483250	3717550	1.32E-07	0.67YrCanc	1.32E-07	0.00E+00
464	ALL	483350	3717550	1.63E-07	0.67YrCanc	1.63E-07	0.00E+00
465	ALL	483450	3717550	2.12E-07	0.67YrCanc	2.12E-07	0.00E+00
466	ALL	483550	3717550	2.89E-07	0.67YrCanc	2.89E-07	0.00E+00
467	ALL	483950	3717550	2.13E-06	0.67YrCanc	2.13E-06	0.00E+00
468	ALL	484050	3717550	2.32E-06	0.67YrCanc	2.32E-06	0.00E+00
469	ALL	485850	3717550	4.26E-08	0.67YrCanc	4.26E-08	0.00E+00
470	ALL	485950	3717550	3.98E-08	0.67YrCanc	3.98E-08	0.00E+00
471	ALL	481950	3717650	3.30E-08	0.67YrCanc	3.30E-08	0.00E+00
472	ALL	482050	3717650	3.62E-08	0.67YrCanc	3.62E-08	0.00E+00
473	ALL	482150	3717650	3.88E-08	0.67YrCanc	3.88E-08	0.00E+00
474	ALL	482250	3717650	4.15E-08	0.67YrCanc	4.15E-08	0.00E+00
475	ALL	482350	3717650	4.48E-08	0.67YrCanc	4.48E-08	0.00E+00
476	ALL	482450	3717650	4.85E-08	0.67YrCanc	4.85E-08	0.00E+00
477	ALL	482550	3717650	5.30E-08	0.67YrCanc	5.30E-08	0.00E+00
478	ALL	482650	3717650	5.82E-08	0.67YrCanc	5.82E-08	0.00E+00
479	ALL	482750	3717650	6.47E-08	0.67YrCanc	6.47E-08	0.00E+00
480	ALL	482850	3717650	7.25E-08	0.67YrCanc	7.25E-08	0.00E+00
481	ALL	482950	3717650	8.23E-08	0.67YrCanc	8.23E-08	0.00E+00
482	ALL	483350	3717650	1.73E-07	0.67YrCanc	1.73E-07	0.00E+00

483	ALL	484550	3717650	3.22E-07	0.67YrCanc	3.22E-07	0.00E+00
484	ALL	484650	3717650	2.36E-07	0.67YrCanc	2.36E-07	0.00E+00
485	ALL	484750	3717650	1.82E-07	0.67YrCanc	1.82E-07	0.00E+00
486	ALL	484850	3717650	1.46E-07	0.67YrCanc	1.46E-07	0.00E+00
487	ALL	485150	3717650	8.79E-08	0.67YrCanc	8.79E-08	0.00E+00
488	ALL	485450	3717650	6.05E-08	0.67YrCanc	6.05E-08	0.00E+00
489	ALL	485550	3717650	5.51E-08	0.67YrCanc	5.51E-08	0.00E+00
490	ALL	482250	3717750	4.17E-08	0.67YrCanc	4.17E-08	0.00E+00
491	ALL	482350	3717750	4.35E-08	0.67YrCanc	4.35E-08	0.00E+00
492	ALL	482450	3717750	4.70E-08	0.67YrCanc	4.70E-08	0.00E+00
493	ALL	482550	3717750	5.17E-08	0.67YrCanc	5.17E-08	0.00E+00
494	ALL	482650	3717750	5.77E-08	0.67YrCanc	5.77E-08	0.00E+00
495	ALL	482750	3717750	6.53E-08	0.67YrCanc	6.53E-08	0.00E+00
496	ALL	482850	3717750	7.32E-08	0.67YrCanc	7.32E-08	0.00E+00
497	ALL	482950	3717750	8.35E-08	0.67YrCanc	8.35E-08	0.00E+00
498	ALL	484550	3717750	3.43E-07	0.67YrCanc	3.43E-07	0.00E+00
499	ALL	484650	3717750	2.47E-07	0.67YrCanc	2.47E-07	0.00E+00
500	ALL	484750	3717750	1.88E-07	0.67YrCanc	1.88E-07	0.00E+00
501	ALL	484850	3717750	1.49E-07	0.67YrCanc	1.49E-07	0.00E+00
502	ALL	485150	3717750	8.88E-08	0.67YrCanc	8.88E-08	0.00E+00
503	ALL	485450	3717750	6.09E-08	0.67YrCanc	6.09E-08	0.00E+00
504	ALL	485550	3717750	5.53E-08	0.67YrCanc	5.53E-08	0.00E+00
505	ALL	485650	3717750	5.07E-08	0.67YrCanc	5.07E-08	0.00E+00
506	ALL	485750	3717750	4.65E-08	0.67YrCanc	4.65E-08	0.00E+00
507	ALL	485850	3717750	4.30E-08	0.67YrCanc	4.30E-08	0.00E+00
508	ALL	485950	3717750	4.00E-08	0.67YrCanc	4.00E-08	0.00E+00
509	ALL	486050	3717750	3.74E-08	0.67YrCanc	3.74E-08	0.00E+00
510	ALL	482250	3717850	4.02E-08	0.67YrCanc	4.02E-08	0.00E+00
511	ALL	482650	3717850	5.59E-08	0.67YrCanc	5.59E-08	0.00E+00
512	ALL	482750	3717850	6.39E-08	0.67YrCanc	6.39E-08	0.00E+00
513	ALL	482850	3717850	7.33E-08	0.67YrCanc	7.33E-08	0.00E+00
514	ALL	482950	3717850	8.34E-08	0.67YrCanc	8.34E-08	0.00E+00
515	ALL	483350	3717850	1.78E-07	0.67YrCanc	1.78E-07	0.00E+00
516	ALL	483450	3717850	2.37E-07	0.67YrCanc	2.37E-07	0.00E+00
517	ALL	484550	3717850	3.63E-07	0.67YrCanc	3.63E-07	0.00E+00
518	ALL	484650	3717850	2.58E-07	0.67YrCanc	2.58E-07	0.00E+00
519	ALL	484750	3717850	1.95E-07	0.67YrCanc	1.95E-07	0.00E+00
520	ALL	484850	3717850	1.54E-07	0.67YrCanc	1.54E-07	0.00E+00
521	ALL	484950	3717850	1.26E-07	0.67YrCanc	1.26E-07	0.00E+00
522	ALL	485150	3717850	9.00E-08	0.67YrCanc	9.00E-08	0.00E+00
523	ALL	485250	3717850	7.83E-08	0.67YrCanc	7.83E-08	0.00E+00
524	ALL	485450	3717850	6.20E-08	0.67YrCanc	6.20E-08	0.00E+00
525	ALL	485550	3717850	5.61E-08	0.67YrCanc	5.61E-08	0.00E+00
526	ALL	485650	3717850	5.12E-08	0.67YrCanc	5.12E-08	0.00E+00

527	ALL	485750	3717850	4.69E-08	0.67YrCanc	4.69E-08	0.00E+00
528	ALL	485850	3717850	4.34E-08	0.67YrCanc	4.34E-08	0.00E+00
529	ALL	485950	3717850	4.05E-08	0.67YrCanc	4.05E-08	0.00E+00
530	ALL	486050	3717850	3.78E-08	0.67YrCanc	3.78E-08	0.00E+00
531	ALL	481950	3717950	2.82E-08	0.67YrCanc	2.82E-08	0.00E+00
532	ALL	482250	3717950	3.87E-08	0.67YrCanc	3.87E-08	0.00E+00
533	ALL	482350	3717950	3.88E-08	0.67YrCanc	3.88E-08	0.00E+00
534	ALL	482750	3717950	6.12E-08	0.67YrCanc	6.12E-08	0.00E+00
535	ALL	483350	3717950	1.73E-07	0.67YrCanc	1.73E-07	0.00E+00
536	ALL	483450	3717950	2.28E-07	0.67YrCanc	2.28E-07	0.00E+00
537	ALL	483550	3717950	3.18E-07	0.67YrCanc	3.18E-07	0.00E+00
538	ALL	484550	3717950	3.77E-07	0.67YrCanc	3.77E-07	0.00E+00
539	ALL	484650	3717950	2.69E-07	0.67YrCanc	2.69E-07	0.00E+00
540	ALL	484750	3717950	2.03E-07	0.67YrCanc	2.03E-07	0.00E+00
541	ALL	484850	3717950	1.59E-07	0.67YrCanc	1.59E-07	0.00E+00
542	ALL	484950	3717950	1.29E-07	0.67YrCanc	1.29E-07	0.00E+00
543	ALL	485350	3717950	7.05E-08	0.67YrCanc	7.05E-08	0.00E+00
544	ALL	485450	3717950	6.27E-08	0.67YrCanc	6.27E-08	0.00E+00
545	ALL	485550	3717950	5.70E-08	0.67YrCanc	5.70E-08	0.00E+00
546	ALL	485650	3717950	5.16E-08	0.67YrCanc	5.16E-08	0.00E+00
547	ALL	485750	3717950	4.73E-08	0.67YrCanc	4.73E-08	0.00E+00
548	ALL	485850	3717950	4.39E-08	0.67YrCanc	4.39E-08	0.00E+00
549	ALL	485950	3717950	4.09E-08	0.67YrCanc	4.09E-08	0.00E+00
550	ALL	486050	3717950	3.82E-08	0.67YrCanc	3.82E-08	0.00E+00
551	ALL	481950	3718050	2.83E-08	0.67YrCanc	2.83E-08	0.00E+00
552	ALL	482050	3718050	2.93E-08	0.67YrCanc	2.93E-08	0.00E+00
553	ALL	482750	3718050	5.99E-08	0.67YrCanc	5.99E-08	0.00E+00
554	ALL	482850	3718050	6.90E-08	0.67YrCanc	6.90E-08	0.00E+00
555	ALL	482950	3718050	7.72E-08	0.67YrCanc	7.72E-08	0.00E+00
556	ALL	483050	3718050	9.03E-08	0.67YrCanc	9.03E-08	0.00E+00
557	ALL	483150	3718050	1.06E-07	0.67YrCanc	1.06E-07	0.00E+00
558	ALL	483250	3718050	1.27E-07	0.67YrCanc	1.27E-07	0.00E+00
559	ALL	483350	3718050	1.62E-07	0.67YrCanc	1.62E-07	0.00E+00
560	ALL	483450	3718050	2.10E-07	0.67YrCanc	2.10E-07	0.00E+00
561	ALL	483550	3718050	2.90E-07	0.67YrCanc	2.90E-07	0.00E+00
562	ALL	483650	3718050	4.21E-07	0.67YrCanc	4.21E-07	0.00E+00
563	ALL	484550	3718050	3.73E-07	0.67YrCanc	3.73E-07	0.00E+00
564	ALL	484650	3718050	2.73E-07	0.67YrCanc	2.73E-07	0.00E+00
565	ALL	485450	3718050	6.40E-08	0.67YrCanc	6.40E-08	0.00E+00
566	ALL	485550	3718050	5.76E-08	0.67YrCanc	5.76E-08	0.00E+00
567	ALL	485650	3718050	5.21E-08	0.67YrCanc	5.21E-08	0.00E+00
568	ALL	485750	3718050	4.77E-08	0.67YrCanc	4.77E-08	0.00E+00
569	ALL	485850	3718050	4.41E-08	0.67YrCanc	4.41E-08	0.00E+00
570	ALL	485950	3718050	4.10E-08	0.67YrCanc	4.10E-08	0.00E+00

571	ALL	486050	3718050	3.83E-08	0.67YrCanc	3.83E-08	0.00E+00
572	ALL	481950	3718150	2.91E-08	0.67YrCanc	2.91E-08	0.00E+00
573	ALL	482050	3718150	2.96E-08	0.67YrCanc	2.96E-08	0.00E+00
574	ALL	482150	3718150	3.08E-08	0.67YrCanc	3.08E-08	0.00E+00
575	ALL	482250	3718150	3.33E-08	0.67YrCanc	3.33E-08	0.00E+00
576	ALL	482350	3718150	3.65E-08	0.67YrCanc	3.65E-08	0.00E+00
577	ALL	482650	3718150	5.15E-08	0.67YrCanc	5.15E-08	0.00E+00
578	ALL	482750	3718150	5.84E-08	0.67YrCanc	5.84E-08	0.00E+00
579	ALL	482850	3718150	6.19E-08	0.67YrCanc	6.19E-08	0.00E+00
580	ALL	482950	3718150	6.97E-08	0.67YrCanc	6.97E-08	0.00E+00
581	ALL	483050	3718150	8.09E-08	0.67YrCanc	8.09E-08	0.00E+00
582	ALL	483150	3718150	9.74E-08	0.67YrCanc	9.74E-08	0.00E+00
583	ALL	483350	3718150	1.49E-07	0.67YrCanc	1.49E-07	0.00E+00
584	ALL	483450	3718150	1.91E-07	0.67YrCanc	1.91E-07	0.00E+00
585	ALL	483550	3718150	2.52E-07	0.67YrCanc	2.52E-07	0.00E+00
586	ALL	483650	3718150	3.43E-07	0.67YrCanc	3.43E-07	0.00E+00
587	ALL	484550	3718150	3.46E-07	0.67YrCanc	3.46E-07	0.00E+00
588	ALL	484650	3718150	2.65E-07	0.67YrCanc	2.65E-07	0.00E+00
589	ALL	485250	3718150	8.30E-08	0.67YrCanc	8.30E-08	0.00E+00
590	ALL	485550	3718150	5.82E-08	0.67YrCanc	5.82E-08	0.00E+00
591	ALL	485650	3718150	5.28E-08	0.67YrCanc	5.28E-08	0.00E+00
592	ALL	485750	3718150	4.83E-08	0.67YrCanc	4.83E-08	0.00E+00
593	ALL	481950	3718250	2.96E-08	0.67YrCanc	2.96E-08	0.00E+00
594	ALL	482050	3718250	3.03E-08	0.67YrCanc	3.03E-08	0.00E+00
595	ALL	482150	3718250	3.10E-08	0.67YrCanc	3.10E-08	0.00E+00
596	ALL	482250	3718250	3.24E-08	0.67YrCanc	3.24E-08	0.00E+00
597	ALL	482350	3718250	3.61E-08	0.67YrCanc	3.61E-08	0.00E+00
598	ALL	482450	3718250	4.04E-08	0.67YrCanc	4.04E-08	0.00E+00
599	ALL	482550	3718250	4.44E-08	0.67YrCanc	4.44E-08	0.00E+00
600	ALL	482650	3718250	5.02E-08	0.67YrCanc	5.02E-08	0.00E+00
601	ALL	482750	3718250	5.54E-08	0.67YrCanc	5.54E-08	0.00E+00
602	ALL	482850	3718250	5.44E-08	0.67YrCanc	5.44E-08	0.00E+00
603	ALL	482950	3718250	5.96E-08	0.67YrCanc	5.96E-08	0.00E+00
604	ALL	483250	3718250	1.06E-07	0.67YrCanc	1.06E-07	0.00E+00
605	ALL	484550	3718250	3.00E-07	0.67YrCanc	3.00E-07	0.00E+00
606	ALL	484650	3718250	2.43E-07	0.67YrCanc	2.43E-07	0.00E+00
607	ALL	484750	3718250	1.98E-07	0.67YrCanc	1.98E-07	0.00E+00
608	ALL	484850	3718250	1.63E-07	0.67YrCanc	1.63E-07	0.00E+00
609	ALL	485150	3718250	9.74E-08	0.67YrCanc	9.74E-08	0.00E+00
610	ALL	485250	3718250	8.44E-08	0.67YrCanc	8.44E-08	0.00E+00
611	ALL	485650	3718250	5.37E-08	0.67YrCanc	5.37E-08	0.00E+00
612	ALL	481950	3718350	2.80E-08	0.67YrCanc	2.80E-08	0.00E+00
613	ALL	482050	3718350	2.97E-08	0.67YrCanc	2.97E-08	0.00E+00
614	ALL	482150	3718350	3.06E-08	0.67YrCanc	3.06E-08	0.00E+00

615	ALL	482250	3718350	3.16E-08	0.67YrCanc	3.16E-08	0.00E+00
616	ALL	482350	3718350	3.50E-08	0.67YrCanc	3.50E-08	0.00E+00
617	ALL	482450	3718350	3.95E-08	0.67YrCanc	3.95E-08	0.00E+00
618	ALL	482550	3718350	4.32E-08	0.67YrCanc	4.32E-08	0.00E+00
619	ALL	482650	3718350	4.77E-08	0.67YrCanc	4.77E-08	0.00E+00
620	ALL	482750	3718350	5.27E-08	0.67YrCanc	5.27E-08	0.00E+00
621	ALL	483150	3718350	7.53E-08	0.67YrCanc	7.53E-08	0.00E+00
622	ALL	483450	3718350	1.53E-07	0.67YrCanc	1.53E-07	0.00E+00
623	ALL	485250	3718350	8.50E-08	0.67YrCanc	8.50E-08	0.00E+00
624	ALL	485350	3718350	7.49E-08	0.67YrCanc	7.49E-08	0.00E+00
625	ALL	485550	3718350	5.97E-08	0.67YrCanc	5.97E-08	0.00E+00
626	ALL	485650	3718350	5.46E-08	0.67YrCanc	5.46E-08	0.00E+00
627	ALL	486150	3718350	3.64E-08	0.67YrCanc	3.64E-08	0.00E+00
628	ALL	486250	3718350	3.42E-08	0.67YrCanc	3.42E-08	0.00E+00
629	ALL	481950	3718450	2.71E-08	0.67YrCanc	2.71E-08	0.00E+00
630	ALL	482050	3718450	2.89E-08	0.67YrCanc	2.89E-08	0.00E+00
631	ALL	482150	3718450	2.98E-08	0.67YrCanc	2.98E-08	0.00E+00
632	ALL	482250	3718450	3.10E-08	0.67YrCanc	3.10E-08	0.00E+00
633	ALL	482350	3718450	3.37E-08	0.67YrCanc	3.37E-08	0.00E+00
634	ALL	482450	3718450	3.76E-08	0.67YrCanc	3.76E-08	0.00E+00
635	ALL	482550	3718450	4.18E-08	0.67YrCanc	4.18E-08	0.00E+00
636	ALL	482650	3718450	4.59E-08	0.67YrCanc	4.59E-08	0.00E+00
637	ALL	482750	3718450	5.07E-08	0.67YrCanc	5.07E-08	0.00E+00
638	ALL	482850	3718450	5.37E-08	0.67YrCanc	5.37E-08	0.00E+00
639	ALL	483350	3718450	1.11E-07	0.67YrCanc	1.11E-07	0.00E+00
640	ALL	484450	3718450	2.18E-07	0.67YrCanc	2.18E-07	0.00E+00
641	ALL	485150	3718450	9.60E-08	0.67YrCanc	9.60E-08	0.00E+00
642	ALL	485250	3718450	8.44E-08	0.67YrCanc	8.44E-08	0.00E+00
643	ALL	485350	3718450	7.51E-08	0.67YrCanc	7.51E-08	0.00E+00
644	ALL	485750	3718450	5.00E-08	0.67YrCanc	5.00E-08	0.00E+00
645	ALL	485850	3718450	4.57E-08	0.67YrCanc	4.57E-08	0.00E+00
646	ALL	485950	3718450	4.22E-08	0.67YrCanc	4.22E-08	0.00E+00
647	ALL	486050	3718450	3.94E-08	0.67YrCanc	3.94E-08	0.00E+00
648	ALL	481950	3718550	2.61E-08	0.67YrCanc	2.61E-08	0.00E+00
649	ALL	482050	3718550	2.77E-08	0.67YrCanc	2.77E-08	0.00E+00
650	ALL	482150	3718550	2.95E-08	0.67YrCanc	2.95E-08	0.00E+00
651	ALL	482250	3718550	3.11E-08	0.67YrCanc	3.11E-08	0.00E+00
652	ALL	482350	3718550	3.32E-08	0.67YrCanc	3.32E-08	0.00E+00
653	ALL	482450	3718550	3.68E-08	0.67YrCanc	3.68E-08	0.00E+00
654	ALL	482550	3718550	4.03E-08	0.67YrCanc	4.03E-08	0.00E+00
655	ALL	482650	3718550	4.38E-08	0.67YrCanc	4.38E-08	0.00E+00
656	ALL	482750	3718550	4.95E-08	0.67YrCanc	4.95E-08	0.00E+00
657	ALL	482850	3718550	5.38E-08	0.67YrCanc	5.38E-08	0.00E+00
658	ALL	482950	3718550	5.80E-08	0.67YrCanc	5.80E-08	0.00E+00

659	ALL	483550	3718550	1.25E-07	0.67YrCanc	1.25E-07	0.00E+00
660	ALL	484650	3718550	1.55E-07	0.67YrCanc	1.55E-07	0.00E+00
661	ALL	484750	3718550	1.42E-07	0.67YrCanc	1.42E-07	0.00E+00
662	ALL	484850	3718550	1.29E-07	0.67YrCanc	1.29E-07	0.00E+00
663	ALL	485850	3718550	4.62E-08	0.67YrCanc	4.62E-08	0.00E+00
664	ALL	485950	3718550	4.28E-08	0.67YrCanc	4.28E-08	0.00E+00
665	ALL	482050	3718650	2.67E-08	0.67YrCanc	2.67E-08	0.00E+00
666	ALL	482150	3718650	2.87E-08	0.67YrCanc	2.87E-08	0.00E+00
667	ALL	482250	3718650	3.10E-08	0.67YrCanc	3.10E-08	0.00E+00
668	ALL	482350	3718650	3.36E-08	0.67YrCanc	3.36E-08	0.00E+00
669	ALL	482450	3718650	3.60E-08	0.67YrCanc	3.60E-08	0.00E+00
670	ALL	482550	3718650	3.91E-08	0.67YrCanc	3.91E-08	0.00E+00
671	ALL	482650	3718650	4.33E-08	0.67YrCanc	4.33E-08	0.00E+00
672	ALL	482750	3718650	4.80E-08	0.67YrCanc	4.80E-08	0.00E+00
673	ALL	482850	3718650	5.36E-08	0.67YrCanc	5.36E-08	0.00E+00
674	ALL	482950	3718650	5.97E-08	0.67YrCanc	5.97E-08	0.00E+00
675	ALL	485150	3718650	8.79E-08	0.67YrCanc	8.79E-08	0.00E+00
676	ALL	485450	3718650	6.61E-08	0.67YrCanc	6.61E-08	0.00E+00
677	ALL	485550	3718650	6.01E-08	0.67YrCanc	6.01E-08	0.00E+00
678	ALL	485650	3718650	5.47E-08	0.67YrCanc	5.47E-08	0.00E+00
679	ALL	485850	3718650	4.69E-08	0.67YrCanc	4.69E-08	0.00E+00
680	ALL	485950	3718650	4.30E-08	0.67YrCanc	4.30E-08	0.00E+00
681	ALL	486050	3718650	4.03E-08	0.67YrCanc	4.03E-08	0.00E+00
682	ALL	482050	3718750	2.63E-08	0.67YrCanc	2.63E-08	0.00E+00
683	ALL	482150	3718750	2.82E-08	0.67YrCanc	2.82E-08	0.00E+00
684	ALL	482250	3718750	3.00E-08	0.67YrCanc	3.00E-08	0.00E+00
685	ALL	482350	3718750	3.26E-08	0.67YrCanc	3.26E-08	0.00E+00
686	ALL	482450	3718750	3.55E-08	0.67YrCanc	3.55E-08	0.00E+00
687	ALL	482550	3718750	3.88E-08	0.67YrCanc	3.88E-08	0.00E+00
688	ALL	482650	3718750	4.24E-08	0.67YrCanc	4.24E-08	0.00E+00
689	ALL	482750	3718750	4.73E-08	0.67YrCanc	4.73E-08	0.00E+00
690	ALL	482850	3718750	5.26E-08	0.67YrCanc	5.26E-08	0.00E+00
691	ALL	482950	3718750	5.79E-08	0.67YrCanc	5.79E-08	0.00E+00
692	ALL	483050	3718750	6.40E-08	0.67YrCanc	6.40E-08	0.00E+00
693	ALL	484950	3718750	9.58E-08	0.67YrCanc	9.58E-08	0.00E+00
694	ALL	485050	3718750	8.94E-08	0.67YrCanc	8.94E-08	0.00E+00
695	ALL	485150	3718750	8.30E-08	0.67YrCanc	8.30E-08	0.00E+00
696	ALL	485850	3718750	4.70E-08	0.67YrCanc	4.70E-08	0.00E+00
697	ALL	485950	3718750	4.34E-08	0.67YrCanc	4.34E-08	0.00E+00
698	ALL	486050	3718750	4.04E-08	0.67YrCanc	4.04E-08	0.00E+00
699	ALL	482350	3718850	3.22E-08	0.67YrCanc	3.22E-08	0.00E+00
700	ALL	482450	3718850	3.51E-08	0.67YrCanc	3.51E-08	0.00E+00
701	ALL	482550	3718850	3.82E-08	0.67YrCanc	3.82E-08	0.00E+00
702	ALL	482650	3718850	4.19E-08	0.67YrCanc	4.19E-08	0.00E+00

703	ALL	482750	3718850	4.64E-08	0.67YrCanc	4.64E-08	0.00E+00
704	ALL	482850	3718850	5.12E-08	0.67YrCanc	5.12E-08	0.00E+00
705	ALL	482950	3718850	5.56E-08	0.67YrCanc	5.56E-08	0.00E+00
706	ALL	483050	3718850	6.07E-08	0.67YrCanc	6.07E-08	0.00E+00
707	ALL	483150	3718850	6.40E-08	0.67YrCanc	6.40E-08	0.00E+00
708	ALL	484150	3718850	9.35E-08	0.67YrCanc	9.35E-08	0.00E+00
709	ALL	484250	3718850	9.72E-08	0.67YrCanc	9.72E-08	0.00E+00
710	ALL	485350	3718850	6.69E-08	0.67YrCanc	6.69E-08	0.00E+00
711	ALL	485450	3718850	6.21E-08	0.67YrCanc	6.21E-08	0.00E+00
712	ALL	485750	3718850	4.99E-08	0.67YrCanc	4.99E-08	0.00E+00
713	ALL	485850	3718850	4.65E-08	0.67YrCanc	4.65E-08	0.00E+00
714	ALL	485950	3718850	4.35E-08	0.67YrCanc	4.35E-08	0.00E+00
715	ALL	486050	3718850	4.04E-08	0.67YrCanc	4.04E-08	0.00E+00
716	ALL	482450	3718950	3.47E-08	0.67YrCanc	3.47E-08	0.00E+00
717	ALL	482550	3718950	3.79E-08	0.67YrCanc	3.79E-08	0.00E+00
718	ALL	482650	3718950	4.12E-08	0.67YrCanc	4.12E-08	0.00E+00
719	ALL	482750	3718950	4.53E-08	0.67YrCanc	4.53E-08	0.00E+00
720	ALL	482850	3718950	4.92E-08	0.67YrCanc	4.92E-08	0.00E+00
721	ALL	482950	3718950	5.31E-08	0.67YrCanc	5.31E-08	0.00E+00
722	ALL	483050	3718950	5.68E-08	0.67YrCanc	5.68E-08	0.00E+00
723	ALL	483150	3718950	6.04E-08	0.67YrCanc	6.04E-08	0.00E+00
724	ALL	483250	3718950	6.23E-08	0.67YrCanc	6.23E-08	0.00E+00
725	ALL	485750	3718950	4.95E-08	0.67YrCanc	4.95E-08	0.00E+00
726	ALL	485850	3718950	4.62E-08	0.67YrCanc	4.62E-08	0.00E+00
727	ALL	485950	3718950	4.30E-08	0.67YrCanc	4.30E-08	0.00E+00
728	ALL	486050	3718950	4.04E-08	0.67YrCanc	4.04E-08	0.00E+00
729	ALL	482250	3719050	2.91E-08	0.67YrCanc	2.91E-08	0.00E+00
730	ALL	482350	3719050	3.17E-08	0.67YrCanc	3.17E-08	0.00E+00
731	ALL	482450	3719050	3.44E-08	0.67YrCanc	3.44E-08	0.00E+00
732	ALL	482550	3719050	3.73E-08	0.67YrCanc	3.73E-08	0.00E+00
733	ALL	482650	3719050	4.06E-08	0.67YrCanc	4.06E-08	0.00E+00
734	ALL	482850	3719050	4.70E-08	0.67YrCanc	4.70E-08	0.00E+00
735	ALL	482950	3719050	5.00E-08	0.67YrCanc	5.00E-08	0.00E+00
736	ALL	483050	3719050	5.30E-08	0.67YrCanc	5.30E-08	0.00E+00
737	ALL	483150	3719050	5.56E-08	0.67YrCanc	5.56E-08	0.00E+00
738	ALL	483250	3719050	5.73E-08	0.67YrCanc	5.73E-08	0.00E+00
739	ALL	483350	3719050	5.80E-08	0.67YrCanc	5.80E-08	0.00E+00
740	ALL	483450	3719050	5.86E-08	0.67YrCanc	5.86E-08	0.00E+00
741	ALL	483550	3719050	5.90E-08	0.67YrCanc	5.90E-08	0.00E+00
742	ALL	485250	3719050	6.23E-08	0.67YrCanc	6.23E-08	0.00E+00
743	ALL	485450	3719050	5.64E-08	0.67YrCanc	5.64E-08	0.00E+00
744	ALL	485550	3719050	5.34E-08	0.67YrCanc	5.34E-08	0.00E+00
745	ALL	485650	3719050	5.07E-08	0.67YrCanc	5.07E-08	0.00E+00
746	ALL	485750	3719050	4.80E-08	0.67YrCanc	4.80E-08	0.00E+00

747	ALL	482350	3719150	3.16E-08	0.67YrCanc	3.16E-08	0.00E+00
748	ALL	482650	3719150	3.94E-08	0.67YrCanc	3.94E-08	0.00E+00
749	ALL	482850	3719150	4.48E-08	0.67YrCanc	4.48E-08	0.00E+00
750	ALL	483050	3719150	4.95E-08	0.67YrCanc	4.95E-08	0.00E+00
751	ALL	483150	3719150	5.12E-08	0.67YrCanc	5.12E-08	0.00E+00
752	ALL	483250	3719150	5.25E-08	0.67YrCanc	5.25E-08	0.00E+00
753	ALL	483350	3719150	5.32E-08	0.67YrCanc	5.32E-08	0.00E+00
754	ALL	483450	3719150	5.37E-08	0.67YrCanc	5.37E-08	0.00E+00
755	ALL	483550	3719150	5.40E-08	0.67YrCanc	5.40E-08	0.00E+00
756	ALL	485250	3719150	5.82E-08	0.67YrCanc	5.82E-08	0.00E+00
757	ALL	485550	3719150	5.10E-08	0.67YrCanc	5.10E-08	0.00E+00
758	ALL	485650	3719150	4.88E-08	0.67YrCanc	4.88E-08	0.00E+00
759	ALL	485950	3719150	4.17E-08	0.67YrCanc	4.17E-08	0.00E+00
760	ALL	484550	3719250	6.07E-08	0.67YrCanc	6.07E-08	0.00E+00
761	ALL	484750	3719250	5.96E-08	0.67YrCanc	5.96E-08	0.00E+00
762	ALL	484850	3719250	5.89E-08	0.67YrCanc	5.89E-08	0.00E+00
763	ALL	484750	3719350	5.45E-08	0.67YrCanc	5.45E-08	0.00E+00
764	ALL	484850	3719350	5.38E-08	0.67YrCanc	5.38E-08	0.00E+00
765	ALL	484950	3719350	5.30E-08	0.67YrCanc	5.30E-08	0.00E+00
766	ALL	485050	3719350	5.22E-08	0.67YrCanc	5.22E-08	0.00E+00
767	ALL	485150	3719350	5.12E-08	0.67YrCanc	5.12E-08	0.00E+00
768	ALL	484250	3719450	4.99E-08	0.67YrCanc	4.99E-08	0.00E+00
769	ALL	484350	3719450	5.09E-08	0.67YrCanc	5.09E-08	0.00E+00
770	ALL	484450	3719450	5.11E-08	0.67YrCanc	5.11E-08	0.00E+00
771	ALL	484550	3719450	5.09E-08	0.67YrCanc	5.09E-08	0.00E+00
772	ALL	484650	3719450	5.05E-08	0.67YrCanc	5.05E-08	0.00E+00
773	ALL	484750	3719450	5.01E-08	0.67YrCanc	5.01E-08	0.00E+00
774	ALL	484850	3719450	4.96E-08	0.67YrCanc	4.96E-08	0.00E+00
775	ALL	484950	3719450	4.91E-08	0.67YrCanc	4.91E-08	0.00E+00
776	ALL	485050	3719450	4.85E-08	0.67YrCanc	4.85E-08	0.00E+00
777	ALL	485150	3719450	4.76E-08	0.67YrCanc	4.76E-08	0.00E+00
778	ALL	485250	3719450	4.68E-08	0.67YrCanc	4.68E-08	0.00E+00
779	ALL	485350	3719450	4.59E-08	0.67YrCanc	4.59E-08	0.00E+00
780	ALL	485450	3719450	4.47E-08	0.67YrCanc	4.47E-08	0.00E+00
781	ALL	485550	3719450	4.36E-08	0.67YrCanc	4.36E-08	0.00E+00
782	ALL	484250	3719550	4.54E-08	0.67YrCanc	4.54E-08	0.00E+00
783	ALL	484350	3719550	4.64E-08	0.67YrCanc	4.64E-08	0.00E+00
784	ALL	484450	3719550	4.72E-08	0.67YrCanc	4.72E-08	0.00E+00
785	ALL	484550	3719550	4.71E-08	0.67YrCanc	4.71E-08	0.00E+00
786	ALL	484650	3719550	4.68E-08	0.67YrCanc	4.68E-08	0.00E+00
787	ALL	484750	3719550	4.64E-08	0.67YrCanc	4.64E-08	0.00E+00
788	ALL	484850	3719550	4.60E-08	0.67YrCanc	4.60E-08	0.00E+00
789	ALL	484950	3719550	4.56E-08	0.67YrCanc	4.56E-08	0.00E+00
790	ALL	485050	3719550	4.50E-08	0.67YrCanc	4.50E-08	0.00E+00

791	ALL	485150	3719550	4.44E-08	0.67YrCanc	4.44E-08	0.00E+00
792	ALL	485250	3719550	4.36E-08	0.67YrCanc	4.36E-08	0.00E+00
793	ALL	485350	3719550	4.31E-08	0.67YrCanc	4.31E-08	0.00E+00
794	ALL	485450	3719550	4.22E-08	0.67YrCanc	4.22E-08	0.00E+00
795	ALL	485550	3719550	4.13E-08	0.67YrCanc	4.13E-08	0.00E+00
796	ALL	484450	3719850	3.82E-08	0.67YrCanc	3.82E-08	0.00E+00
797	ALL	484550	3719850	3.84E-08	0.67YrCanc	3.84E-08	0.00E+00
798	ALL	484650	3719850	3.82E-08	0.67YrCanc	3.82E-08	0.00E+00
799	ALL	484350	3719950	3.54E-08	0.67YrCanc	3.54E-08	0.00E+00
800	ALL	484450	3719950	3.54E-08	0.67YrCanc	3.54E-08	0.00E+00
801	ALL	484550	3719950	3.55E-08	0.67YrCanc	3.55E-08	0.00E+00
802	ALL	484650	3719950	3.60E-08	0.67YrCanc	3.60E-08	0.00E+00
803	ALL	483837.5	3717213	2.54E-07	0.67YrCanc	2.54E-07	0.00E+00
804	ALL	483862.5	3717213	2.61E-07	0.67YrCanc	2.61E-07	0.00E+00
805	ALL	483887.5	3717213	2.69E-07	0.67YrCanc	2.69E-07	0.00E+00
806	ALL	483412.5	3717238	1.35E-07	0.67YrCanc	1.35E-07	0.00E+00
807	ALL	483812.5	3717238	2.64E-07	0.67YrCanc	2.64E-07	0.00E+00
808	ALL	483837.5	3717238	2.73E-07	0.67YrCanc	2.73E-07	0.00E+00
809	ALL	483862.5	3717238	2.82E-07	0.67YrCanc	2.82E-07	0.00E+00
810	ALL	483887.5	3717238	2.92E-07	0.67YrCanc	2.92E-07	0.00E+00
811	ALL	483912.5	3717238	3.00E-07	0.67YrCanc	3.00E-07	0.00E+00
812	ALL	483937.5	3717238	3.07E-07	0.67YrCanc	3.07E-07	0.00E+00
813	ALL	483412.5	3717263	1.40E-07	0.67YrCanc	1.40E-07	0.00E+00
814	ALL	483437.5	3717263	1.46E-07	0.67YrCanc	1.46E-07	0.00E+00
815	ALL	483462.5	3717263	1.52E-07	0.67YrCanc	1.52E-07	0.00E+00
816	ALL	483812.5	3717263	2.84E-07	0.67YrCanc	2.84E-07	0.00E+00
817	ALL	483837.5	3717263	2.95E-07	0.67YrCanc	2.95E-07	0.00E+00
818	ALL	483862.5	3717263	3.06E-07	0.67YrCanc	3.06E-07	0.00E+00
819	ALL	483887.5	3717263	3.17E-07	0.67YrCanc	3.17E-07	0.00E+00
820	ALL	483912.5	3717263	3.27E-07	0.67YrCanc	3.27E-07	0.00E+00
821	ALL	483937.5	3717263	3.35E-07	0.67YrCanc	3.35E-07	0.00E+00
822	ALL	483962.5	3717263	3.43E-07	0.67YrCanc	3.43E-07	0.00E+00
823	ALL	483987.5	3717263	3.49E-07	0.67YrCanc	3.49E-07	0.00E+00
824	ALL	483412.5	3717288	1.44E-07	0.67YrCanc	1.44E-07	0.00E+00
825	ALL	483437.5	3717288	1.50E-07	0.67YrCanc	1.50E-07	0.00E+00
826	ALL	483462.5	3717288	1.57E-07	0.67YrCanc	1.57E-07	0.00E+00
827	ALL	483487.5	3717288	1.64E-07	0.67YrCanc	1.64E-07	0.00E+00
828	ALL	483812.5	3717288	3.07E-07	0.67YrCanc	3.07E-07	0.00E+00
829	ALL	483837.5	3717288	3.20E-07	0.67YrCanc	3.20E-07	0.00E+00
830	ALL	483862.5	3717288	3.33E-07	0.67YrCanc	3.33E-07	0.00E+00
831	ALL	483887.5	3717288	3.47E-07	0.67YrCanc	3.47E-07	0.00E+00
832	ALL	483912.5	3717288	3.59E-07	0.67YrCanc	3.59E-07	0.00E+00
833	ALL	483937.5	3717288	3.69E-07	0.67YrCanc	3.69E-07	0.00E+00
834	ALL	483962.5	3717288	3.78E-07	0.67YrCanc	3.78E-07	0.00E+00

835	ALL	483987.5	3717288	3.85E-07	0.67YrCanc	3.85E-07	0.00E+00
836	ALL	484012.5	3717288	3.90E-07	0.67YrCanc	3.90E-07	0.00E+00
837	ALL	483412.5	3717313	1.48E-07	0.67YrCanc	1.48E-07	0.00E+00
838	ALL	483437.5	3717313	1.55E-07	0.67YrCanc	1.55E-07	0.00E+00
839	ALL	483462.5	3717313	1.63E-07	0.67YrCanc	1.63E-07	0.00E+00
840	ALL	483487.5	3717313	1.70E-07	0.67YrCanc	1.70E-07	0.00E+00
841	ALL	483512.5	3717313	1.79E-07	0.67YrCanc	1.79E-07	0.00E+00
842	ALL	483787.5	3717313	3.20E-07	0.67YrCanc	3.20E-07	0.00E+00
843	ALL	483812.5	3717313	3.36E-07	0.67YrCanc	3.36E-07	0.00E+00
844	ALL	483837.5	3717313	3.52E-07	0.67YrCanc	3.52E-07	0.00E+00
845	ALL	483862.5	3717313	3.68E-07	0.67YrCanc	3.68E-07	0.00E+00
846	ALL	483887.5	3717313	3.83E-07	0.67YrCanc	3.83E-07	0.00E+00
847	ALL	483912.5	3717313	3.97E-07	0.67YrCanc	3.97E-07	0.00E+00
848	ALL	483937.5	3717313	4.10E-07	0.67YrCanc	4.10E-07	0.00E+00
849	ALL	483962.5	3717313	4.20E-07	0.67YrCanc	4.20E-07	0.00E+00
850	ALL	483987.5	3717313	4.29E-07	0.67YrCanc	4.29E-07	0.00E+00
851	ALL	484012.5	3717313	4.35E-07	0.67YrCanc	4.35E-07	0.00E+00
852	ALL	484037.5	3717313	4.37E-07	0.67YrCanc	4.37E-07	0.00E+00
853	ALL	484562.5	3717313	2.15E-07	0.67YrCanc	2.15E-07	0.00E+00
854	ALL	484587.5	3717313	2.05E-07	0.67YrCanc	2.05E-07	0.00E+00
855	ALL	484612.5	3717313	1.96E-07	0.67YrCanc	1.96E-07	0.00E+00
856	ALL	484637.5	3717313	1.86E-07	0.67YrCanc	1.86E-07	0.00E+00
857	ALL	484662.5	3717313	1.78E-07	0.67YrCanc	1.78E-07	0.00E+00
858	ALL	484687.5	3717313	1.69E-07	0.67YrCanc	1.69E-07	0.00E+00
859	ALL	484712.5	3717313	1.62E-07	0.67YrCanc	1.62E-07	0.00E+00
860	ALL	484737.5	3717313	1.55E-07	0.67YrCanc	1.55E-07	0.00E+00
861	ALL	484762.5	3717313	1.48E-07	0.67YrCanc	1.48E-07	0.00E+00
862	ALL	483412.5	3717338	1.53E-07	0.67YrCanc	1.53E-07	0.00E+00
863	ALL	483437.5	3717338	1.60E-07	0.67YrCanc	1.60E-07	0.00E+00
864	ALL	483462.5	3717338	1.68E-07	0.67YrCanc	1.68E-07	0.00E+00
865	ALL	483487.5	3717338	1.77E-07	0.67YrCanc	1.77E-07	0.00E+00
866	ALL	483512.5	3717338	1.86E-07	0.67YrCanc	1.86E-07	0.00E+00
867	ALL	483537.5	3717338	1.97E-07	0.67YrCanc	1.97E-07	0.00E+00
868	ALL	483787.5	3717338	3.49E-07	0.67YrCanc	3.49E-07	0.00E+00
869	ALL	483812.5	3717338	3.69E-07	0.67YrCanc	3.69E-07	0.00E+00
870	ALL	483837.5	3717338	3.88E-07	0.67YrCanc	3.88E-07	0.00E+00
871	ALL	483862.5	3717338	4.08E-07	0.67YrCanc	4.08E-07	0.00E+00
872	ALL	483887.5	3717338	4.26E-07	0.67YrCanc	4.26E-07	0.00E+00
873	ALL	483912.5	3717338	4.43E-07	0.67YrCanc	4.43E-07	0.00E+00
874	ALL	483937.5	3717338	4.58E-07	0.67YrCanc	4.58E-07	0.00E+00
875	ALL	483962.5	3717338	4.71E-07	0.67YrCanc	4.71E-07	0.00E+00
876	ALL	483987.5	3717338	4.81E-07	0.67YrCanc	4.81E-07	0.00E+00
877	ALL	484012.5	3717338	4.88E-07	0.67YrCanc	4.88E-07	0.00E+00
878	ALL	484037.5	3717338	4.91E-07	0.67YrCanc	4.91E-07	0.00E+00

879	ALL	484562.5	3717338	2.24E-07	0.67YrCanc	2.24E-07	0.00E+00
880	ALL	484587.5	3717338	2.13E-07	0.67YrCanc	2.13E-07	0.00E+00
881	ALL	484612.5	3717338	2.02E-07	0.67YrCanc	2.02E-07	0.00E+00
882	ALL	484637.5	3717338	1.92E-07	0.67YrCanc	1.92E-07	0.00E+00
883	ALL	484662.5	3717338	1.83E-07	0.67YrCanc	1.83E-07	0.00E+00
884	ALL	484687.5	3717338	1.74E-07	0.67YrCanc	1.74E-07	0.00E+00
885	ALL	484712.5	3717338	1.66E-07	0.67YrCanc	1.66E-07	0.00E+00
886	ALL	484737.5	3717338	1.58E-07	0.67YrCanc	1.58E-07	0.00E+00
887	ALL	484762.5	3717338	1.51E-07	0.67YrCanc	1.51E-07	0.00E+00
888	ALL	483412.5	3717363	1.57E-07	0.67YrCanc	1.57E-07	0.00E+00
889	ALL	483437.5	3717363	1.65E-07	0.67YrCanc	1.65E-07	0.00E+00
890	ALL	483462.5	3717363	1.74E-07	0.67YrCanc	1.74E-07	0.00E+00
891	ALL	483487.5	3717363	1.84E-07	0.67YrCanc	1.84E-07	0.00E+00
892	ALL	483512.5	3717363	1.94E-07	0.67YrCanc	1.94E-07	0.00E+00
893	ALL	483537.5	3717363	2.05E-07	0.67YrCanc	2.05E-07	0.00E+00
894	ALL	483787.5	3717363	3.81E-07	0.67YrCanc	3.81E-07	0.00E+00
895	ALL	483812.5	3717363	4.06E-07	0.67YrCanc	4.06E-07	0.00E+00
896	ALL	483837.5	3717363	4.30E-07	0.67YrCanc	4.30E-07	0.00E+00
897	ALL	483862.5	3717363	4.54E-07	0.67YrCanc	4.54E-07	0.00E+00
898	ALL	483887.5	3717363	4.78E-07	0.67YrCanc	4.78E-07	0.00E+00
899	ALL	483912.5	3717363	4.99E-07	0.67YrCanc	4.99E-07	0.00E+00
900	ALL	483937.5	3717363	5.17E-07	0.67YrCanc	5.17E-07	0.00E+00
901	ALL	483962.5	3717363	5.32E-07	0.67YrCanc	5.32E-07	0.00E+00
902	ALL	483987.5	3717363	5.45E-07	0.67YrCanc	5.45E-07	0.00E+00
903	ALL	484012.5	3717363	5.53E-07	0.67YrCanc	5.53E-07	0.00E+00
904	ALL	484037.5	3717363	5.56E-07	0.67YrCanc	5.56E-07	0.00E+00
905	ALL	484562.5	3717363	2.32E-07	0.67YrCanc	2.32E-07	0.00E+00
906	ALL	484587.5	3717363	2.20E-07	0.67YrCanc	2.20E-07	0.00E+00
907	ALL	484612.5	3717363	2.08E-07	0.67YrCanc	2.08E-07	0.00E+00
908	ALL	484637.5	3717363	1.98E-07	0.67YrCanc	1.98E-07	0.00E+00
909	ALL	484662.5	3717363	1.88E-07	0.67YrCanc	1.88E-07	0.00E+00
910	ALL	484687.5	3717363	1.78E-07	0.67YrCanc	1.78E-07	0.00E+00
911	ALL	484712.5	3717363	1.70E-07	0.67YrCanc	1.70E-07	0.00E+00
912	ALL	484737.5	3717363	1.62E-07	0.67YrCanc	1.62E-07	0.00E+00
913	ALL	484762.5	3717363	1.54E-07	0.67YrCanc	1.54E-07	0.00E+00
914	ALL	484787.5	3717363	1.47E-07	0.67YrCanc	1.47E-07	0.00E+00
915	ALL	483412.5	3717388	1.62E-07	0.67YrCanc	1.62E-07	0.00E+00
916	ALL	483437.5	3717388	1.71E-07	0.67YrCanc	1.71E-07	0.00E+00
917	ALL	483462.5	3717388	1.80E-07	0.67YrCanc	1.80E-07	0.00E+00
918	ALL	483487.5	3717388	1.91E-07	0.67YrCanc	1.91E-07	0.00E+00
919	ALL	483512.5	3717388	2.02E-07	0.67YrCanc	2.02E-07	0.00E+00
920	ALL	483537.5	3717388	2.15E-07	0.67YrCanc	2.15E-07	0.00E+00
921	ALL	483562.5	3717388	2.28E-07	0.67YrCanc	2.28E-07	0.00E+00
922	ALL	483787.5	3717388	4.16E-07	0.67YrCanc	4.16E-07	0.00E+00

923	ALL	483812.5	3717388	4.47E-07	0.67YrCanc	4.47E-07	0.00E+00
924	ALL	483837.5	3717388	4.77E-07	0.67YrCanc	4.77E-07	0.00E+00
925	ALL	483862.5	3717388	5.09E-07	0.67YrCanc	5.09E-07	0.00E+00
926	ALL	483887.5	3717388	5.38E-07	0.67YrCanc	5.38E-07	0.00E+00
927	ALL	483912.5	3717388	5.65E-07	0.67YrCanc	5.65E-07	0.00E+00
928	ALL	483937.5	3717388	5.88E-07	0.67YrCanc	5.88E-07	0.00E+00
929	ALL	483962.5	3717388	6.07E-07	0.67YrCanc	6.07E-07	0.00E+00
930	ALL	483987.5	3717388	6.22E-07	0.67YrCanc	6.22E-07	0.00E+00
931	ALL	484012.5	3717388	6.32E-07	0.67YrCanc	6.32E-07	0.00E+00
932	ALL	484037.5	3717388	6.36E-07	0.67YrCanc	6.36E-07	0.00E+00
933	ALL	484062.5	3717388	6.34E-07	0.67YrCanc	6.34E-07	0.00E+00
934	ALL	484562.5	3717388	2.40E-07	0.67YrCanc	2.40E-07	0.00E+00
935	ALL	484587.5	3717388	2.27E-07	0.67YrCanc	2.27E-07	0.00E+00
936	ALL	484612.5	3717388	2.14E-07	0.67YrCanc	2.14E-07	0.00E+00
937	ALL	484637.5	3717388	2.03E-07	0.67YrCanc	2.03E-07	0.00E+00
938	ALL	484662.5	3717388	1.92E-07	0.67YrCanc	1.92E-07	0.00E+00
939	ALL	484687.5	3717388	1.82E-07	0.67YrCanc	1.82E-07	0.00E+00
940	ALL	484712.5	3717388	1.73E-07	0.67YrCanc	1.73E-07	0.00E+00
941	ALL	484737.5	3717388	1.65E-07	0.67YrCanc	1.65E-07	0.00E+00
942	ALL	484762.5	3717388	1.57E-07	0.67YrCanc	1.57E-07	0.00E+00
943	ALL	484787.5	3717388	1.49E-07	0.67YrCanc	1.49E-07	0.00E+00
944	ALL	483412.5	3717413	1.66E-07	0.67YrCanc	1.66E-07	0.00E+00
945	ALL	483437.5	3717413	1.76E-07	0.67YrCanc	1.76E-07	0.00E+00
946	ALL	483462.5	3717413	1.86E-07	0.67YrCanc	1.86E-07	0.00E+00
947	ALL	483487.5	3717413	1.98E-07	0.67YrCanc	1.98E-07	0.00E+00
948	ALL	483512.5	3717413	2.10E-07	0.67YrCanc	2.10E-07	0.00E+00
949	ALL	483537.5	3717413	2.24E-07	0.67YrCanc	2.24E-07	0.00E+00
950	ALL	483562.5	3717413	2.39E-07	0.67YrCanc	2.39E-07	0.00E+00
951	ALL	483787.5	3717413	4.57E-07	0.67YrCanc	4.57E-07	0.00E+00
952	ALL	483812.5	3717413	4.93E-07	0.67YrCanc	4.93E-07	0.00E+00
953	ALL	483837.5	3717413	5.31E-07	0.67YrCanc	5.31E-07	0.00E+00
954	ALL	483862.5	3717413	5.71E-07	0.67YrCanc	5.71E-07	0.00E+00
955	ALL	483887.5	3717413	6.09E-07	0.67YrCanc	6.09E-07	0.00E+00
956	ALL	483912.5	3717413	6.44E-07	0.67YrCanc	6.44E-07	0.00E+00
957	ALL	483937.5	3717413	6.75E-07	0.67YrCanc	6.75E-07	0.00E+00
958	ALL	483962.5	3717413	7.00E-07	0.67YrCanc	7.00E-07	0.00E+00
959	ALL	483987.5	3717413	7.19E-07	0.67YrCanc	7.19E-07	0.00E+00
960	ALL	484012.5	3717413	7.31E-07	0.67YrCanc	7.31E-07	0.00E+00
961	ALL	484037.5	3717413	7.36E-07	0.67YrCanc	7.36E-07	0.00E+00
962	ALL	484062.5	3717413	7.32E-07	0.67YrCanc	7.32E-07	0.00E+00
963	ALL	484487.5	3717413	2.98E-07	0.67YrCanc	2.98E-07	0.00E+00
964	ALL	484512.5	3717413	2.80E-07	0.67YrCanc	2.80E-07	0.00E+00
965	ALL	484537.5	3717413	2.63E-07	0.67YrCanc	2.63E-07	0.00E+00
966	ALL	484562.5	3717413	2.48E-07	0.67YrCanc	2.48E-07	0.00E+00

967	ALL	484587.5	3717413	2.34E-07	0.67YrCanc	2.34E-07	0.00E+00
968	ALL	484612.5	3717413	2.20E-07	0.67YrCanc	2.20E-07	0.00E+00
969	ALL	484637.5	3717413	2.08E-07	0.67YrCanc	2.08E-07	0.00E+00
970	ALL	484662.5	3717413	1.97E-07	0.67YrCanc	1.97E-07	0.00E+00
971	ALL	484687.5	3717413	1.87E-07	0.67YrCanc	1.87E-07	0.00E+00
972	ALL	484712.5	3717413	1.77E-07	0.67YrCanc	1.77E-07	0.00E+00
973	ALL	484737.5	3717413	1.68E-07	0.67YrCanc	1.68E-07	0.00E+00
974	ALL	484762.5	3717413	1.59E-07	0.67YrCanc	1.59E-07	0.00E+00
975	ALL	484787.5	3717413	1.52E-07	0.67YrCanc	1.52E-07	0.00E+00
976	ALL	483412.5	3717438	1.71E-07	0.67YrCanc	1.71E-07	0.00E+00
977	ALL	483437.5	3717438	1.82E-07	0.67YrCanc	1.82E-07	0.00E+00
978	ALL	483462.5	3717438	1.93E-07	0.67YrCanc	1.93E-07	0.00E+00
979	ALL	483487.5	3717438	2.05E-07	0.67YrCanc	2.05E-07	0.00E+00
980	ALL	483512.5	3717438	2.19E-07	0.67YrCanc	2.19E-07	0.00E+00
981	ALL	483537.5	3717438	2.33E-07	0.67YrCanc	2.33E-07	0.00E+00
982	ALL	483562.5	3717438	2.50E-07	0.67YrCanc	2.50E-07	0.00E+00
983	ALL	483587.5	3717438	2.68E-07	0.67YrCanc	2.68E-07	0.00E+00
984	ALL	483837.5	3717438	5.91E-07	0.67YrCanc	5.91E-07	0.00E+00
985	ALL	483862.5	3717438	6.39E-07	0.67YrCanc	6.39E-07	0.00E+00
986	ALL	483887.5	3717438	6.88E-07	0.67YrCanc	6.88E-07	0.00E+00
987	ALL	483912.5	3717438	7.39E-07	0.67YrCanc	7.39E-07	0.00E+00
988	ALL	483937.5	3717438	7.82E-07	0.67YrCanc	7.82E-07	0.00E+00
989	ALL	483962.5	3717438	8.17E-07	0.67YrCanc	8.17E-07	0.00E+00
990	ALL	483987.5	3717438	8.42E-07	0.67YrCanc	8.42E-07	0.00E+00
991	ALL	484012.5	3717438	8.57E-07	0.67YrCanc	8.57E-07	0.00E+00
992	ALL	484037.5	3717438	8.61E-07	0.67YrCanc	8.61E-07	0.00E+00
993	ALL	484062.5	3717438	8.55E-07	0.67YrCanc	8.55E-07	0.00E+00
994	ALL	484487.5	3717438	3.11E-07	0.67YrCanc	3.11E-07	0.00E+00
995	ALL	484512.5	3717438	2.91E-07	0.67YrCanc	2.91E-07	0.00E+00
996	ALL	484537.5	3717438	2.72E-07	0.67YrCanc	2.72E-07	0.00E+00
997	ALL	484562.5	3717438	2.56E-07	0.67YrCanc	2.56E-07	0.00E+00
998	ALL	484587.5	3717438	2.40E-07	0.67YrCanc	2.40E-07	0.00E+00
999	ALL	484612.5	3717438	2.26E-07	0.67YrCanc	2.26E-07	0.00E+00
1000	ALL	484637.5	3717438	2.13E-07	0.67YrCanc	2.13E-07	0.00E+00
1001	ALL	484662.5	3717438	2.01E-07	0.67YrCanc	2.01E-07	0.00E+00
1002	ALL	484687.5	3717438	1.90E-07	0.67YrCanc	1.90E-07	0.00E+00
1003	ALL	484712.5	3717438	1.80E-07	0.67YrCanc	1.80E-07	0.00E+00
1004	ALL	484737.5	3717438	1.71E-07	0.67YrCanc	1.71E-07	0.00E+00
1005	ALL	484762.5	3717438	1.62E-07	0.67YrCanc	1.62E-07	0.00E+00
1006	ALL	483412.5	3717463	1.76E-07	0.67YrCanc	1.76E-07	0.00E+00
1007	ALL	483437.5	3717463	1.87E-07	0.67YrCanc	1.87E-07	0.00E+00
1008	ALL	483462.5	3717463	1.99E-07	0.67YrCanc	1.99E-07	0.00E+00
1009	ALL	483487.5	3717463	2.12E-07	0.67YrCanc	2.12E-07	0.00E+00
1010	ALL	483512.5	3717463	2.27E-07	0.67YrCanc	2.27E-07	0.00E+00

1011	ALL	483537.5	3717463	2.43E-07	0.67YrCanc	2.43E-07	0.00E+00
1012	ALL	483562.5	3717463	2.61E-07	0.67YrCanc	2.61E-07	0.00E+00
1013	ALL	483587.5	3717463	2.81E-07	0.67YrCanc	2.81E-07	0.00E+00
1014	ALL	483887.5	3717463	7.99E-07	0.67YrCanc	7.99E-07	0.00E+00
1015	ALL	483912.5	3717463	8.66E-07	0.67YrCanc	8.66E-07	0.00E+00
1016	ALL	483937.5	3717463	9.24E-07	0.67YrCanc	9.24E-07	0.00E+00
1017	ALL	483962.5	3717463	9.72E-07	0.67YrCanc	9.72E-07	0.00E+00
1018	ALL	483987.5	3717463	1.01E-06	0.67YrCanc	1.01E-06	0.00E+00
1019	ALL	484012.5	3717463	1.03E-06	0.67YrCanc	1.03E-06	0.00E+00
1020	ALL	484037.5	3717463	1.03E-06	0.67YrCanc	1.03E-06	0.00E+00
1021	ALL	484062.5	3717463	1.02E-06	0.67YrCanc	1.02E-06	0.00E+00
1022	ALL	484487.5	3717463	3.23E-07	0.67YrCanc	3.23E-07	0.00E+00
1023	ALL	484512.5	3717463	3.01E-07	0.67YrCanc	3.01E-07	0.00E+00
1024	ALL	484537.5	3717463	2.81E-07	0.67YrCanc	2.81E-07	0.00E+00
1025	ALL	484562.5	3717463	2.63E-07	0.67YrCanc	2.63E-07	0.00E+00
1026	ALL	484587.5	3717463	2.47E-07	0.67YrCanc	2.47E-07	0.00E+00
1027	ALL	484612.5	3717463	2.32E-07	0.67YrCanc	2.32E-07	0.00E+00
1028	ALL	484637.5	3717463	2.17E-07	0.67YrCanc	2.17E-07	0.00E+00
1029	ALL	484662.5	3717463	2.05E-07	0.67YrCanc	2.05E-07	0.00E+00
1030	ALL	484687.5	3717463	1.94E-07	0.67YrCanc	1.94E-07	0.00E+00
1031	ALL	484712.5	3717463	1.83E-07	0.67YrCanc	1.83E-07	0.00E+00
1032	ALL	484737.5	3717463	1.73E-07	0.67YrCanc	1.73E-07	0.00E+00
1033	ALL	484762.5	3717463	1.64E-07	0.67YrCanc	1.64E-07	0.00E+00
1034	ALL	483412.5	3717488	1.81E-07	0.67YrCanc	1.81E-07	0.00E+00
1035	ALL	483437.5	3717488	1.92E-07	0.67YrCanc	1.92E-07	0.00E+00
1036	ALL	483462.5	3717488	2.05E-07	0.67YrCanc	2.05E-07	0.00E+00
1037	ALL	483487.5	3717488	2.19E-07	0.67YrCanc	2.19E-07	0.00E+00
1038	ALL	483512.5	3717488	2.35E-07	0.67YrCanc	2.35E-07	0.00E+00
1039	ALL	483537.5	3717488	2.53E-07	0.67YrCanc	2.53E-07	0.00E+00
1040	ALL	483562.5	3717488	2.73E-07	0.67YrCanc	2.73E-07	0.00E+00
1041	ALL	483587.5	3717488	2.95E-07	0.67YrCanc	2.95E-07	0.00E+00
1042	ALL	483612.5	3717488	3.20E-07	0.67YrCanc	3.20E-07	0.00E+00
1043	ALL	483912.5	3717488	1.03E-06	0.67YrCanc	1.03E-06	0.00E+00
1044	ALL	483937.5	3717488	1.12E-06	0.67YrCanc	1.12E-06	0.00E+00
1045	ALL	483962.5	3717488	1.18E-06	0.67YrCanc	1.18E-06	0.00E+00
1046	ALL	483987.5	3717488	1.23E-06	0.67YrCanc	1.23E-06	0.00E+00
1047	ALL	484012.5	3717488	1.26E-06	0.67YrCanc	1.26E-06	0.00E+00
1048	ALL	484037.5	3717488	1.26E-06	0.67YrCanc	1.26E-06	0.00E+00
1049	ALL	484062.5	3717488	1.23E-06	0.67YrCanc	1.23E-06	0.00E+00
1050	ALL	484537.5	3717488	2.90E-07	0.67YrCanc	2.90E-07	0.00E+00
1051	ALL	484562.5	3717488	2.71E-07	0.67YrCanc	2.71E-07	0.00E+00
1052	ALL	484587.5	3717488	2.53E-07	0.67YrCanc	2.53E-07	0.00E+00
1053	ALL	484612.5	3717488	2.37E-07	0.67YrCanc	2.37E-07	0.00E+00
1054	ALL	484637.5	3717488	2.22E-07	0.67YrCanc	2.22E-07	0.00E+00

1055	ALL	484662.5	3717488	2.08E-07	0.67YrCanc	2.08E-07	0.00E+00
1056	ALL	484687.5	3717488	1.97E-07	0.67YrCanc	1.97E-07	0.00E+00
1057	ALL	484712.5	3717488	1.86E-07	0.67YrCanc	1.86E-07	0.00E+00
1058	ALL	484737.5	3717488	1.76E-07	0.67YrCanc	1.76E-07	0.00E+00
1059	ALL	484762.5	3717488	1.66E-07	0.67YrCanc	1.66E-07	0.00E+00
1060	ALL	483412.5	3717513	1.85E-07	0.67YrCanc	1.85E-07	0.00E+00
1061	ALL	483437.5	3717513	1.98E-07	0.67YrCanc	1.98E-07	0.00E+00
1062	ALL	483462.5	3717513	2.11E-07	0.67YrCanc	2.11E-07	0.00E+00
1063	ALL	483487.5	3717513	2.26E-07	0.67YrCanc	2.26E-07	0.00E+00
1064	ALL	483512.5	3717513	2.43E-07	0.67YrCanc	2.43E-07	0.00E+00
1065	ALL	483537.5	3717513	2.62E-07	0.67YrCanc	2.62E-07	0.00E+00
1066	ALL	483562.5	3717513	2.84E-07	0.67YrCanc	2.84E-07	0.00E+00
1067	ALL	483587.5	3717513	3.09E-07	0.67YrCanc	3.09E-07	0.00E+00
1068	ALL	483612.5	3717513	3.36E-07	0.67YrCanc	3.36E-07	0.00E+00
1069	ALL	483912.5	3717513	1.26E-06	0.67YrCanc	1.26E-06	0.00E+00
1070	ALL	483937.5	3717513	1.38E-06	0.67YrCanc	1.38E-06	0.00E+00
1071	ALL	483962.5	3717513	1.49E-06	0.67YrCanc	1.49E-06	0.00E+00
1072	ALL	483987.5	3717513	1.56E-06	0.67YrCanc	1.56E-06	0.00E+00
1073	ALL	484012.5	3717513	1.59E-06	0.67YrCanc	1.59E-06	0.00E+00
1074	ALL	484037.5	3717513	1.58E-06	0.67YrCanc	1.58E-06	0.00E+00
1075	ALL	484062.5	3717513	1.53E-06	0.67YrCanc	1.53E-06	0.00E+00
1076	ALL	484537.5	3717513	2.98E-07	0.67YrCanc	2.98E-07	0.00E+00
1077	ALL	484562.5	3717513	2.78E-07	0.67YrCanc	2.78E-07	0.00E+00
1078	ALL	484587.5	3717513	2.59E-07	0.67YrCanc	2.59E-07	0.00E+00
1079	ALL	484612.5	3717513	2.42E-07	0.67YrCanc	2.42E-07	0.00E+00
1080	ALL	484637.5	3717513	2.27E-07	0.67YrCanc	2.27E-07	0.00E+00
1081	ALL	484662.5	3717513	2.13E-07	0.67YrCanc	2.13E-07	0.00E+00
1082	ALL	484687.5	3717513	2.00E-07	0.67YrCanc	2.00E-07	0.00E+00
1083	ALL	484712.5	3717513	1.89E-07	0.67YrCanc	1.89E-07	0.00E+00
1084	ALL	484737.5	3717513	1.78E-07	0.67YrCanc	1.78E-07	0.00E+00
1085	ALL	484762.5	3717513	1.68E-07	0.67YrCanc	1.68E-07	0.00E+00
1086	ALL	483412.5	3717538	1.89E-07	0.67YrCanc	1.89E-07	0.00E+00
1087	ALL	483437.5	3717538	2.03E-07	0.67YrCanc	2.03E-07	0.00E+00
1088	ALL	483462.5	3717538	2.17E-07	0.67YrCanc	2.17E-07	0.00E+00
1089	ALL	483487.5	3717538	2.33E-07	0.67YrCanc	2.33E-07	0.00E+00
1090	ALL	483512.5	3717538	2.52E-07	0.67YrCanc	2.52E-07	0.00E+00
1091	ALL	483537.5	3717538	2.72E-07	0.67YrCanc	2.72E-07	0.00E+00
1092	ALL	483562.5	3717538	2.95E-07	0.67YrCanc	2.95E-07	0.00E+00
1093	ALL	483587.5	3717538	3.22E-07	0.67YrCanc	3.22E-07	0.00E+00
1094	ALL	483612.5	3717538	3.53E-07	0.67YrCanc	3.53E-07	0.00E+00
1095	ALL	483637.5	3717538	3.88E-07	0.67YrCanc	3.88E-07	0.00E+00
1096	ALL	483937.5	3717538	1.76E-06	0.67YrCanc	1.76E-06	0.00E+00
1097	ALL	483962.5	3717538	1.93E-06	0.67YrCanc	1.93E-06	0.00E+00
1098	ALL	483987.5	3717538	2.05E-06	0.67YrCanc	2.05E-06	0.00E+00

1099	ALL	484012.5	3717538	2.09E-06	0.67YrCanc	2.09E-06	0.00E+00
1100	ALL	484037.5	3717538	2.06E-06	0.67YrCanc	2.06E-06	0.00E+00
1101	ALL	484062.5	3717538	1.95E-06	0.67YrCanc	1.95E-06	0.00E+00
1102	ALL	483412.5	3717563	1.93E-07	0.67YrCanc	1.93E-07	0.00E+00
1103	ALL	483437.5	3717563	2.07E-07	0.67YrCanc	2.07E-07	0.00E+00
1104	ALL	483462.5	3717563	2.23E-07	0.67YrCanc	2.23E-07	0.00E+00
1105	ALL	483487.5	3717563	2.40E-07	0.67YrCanc	2.40E-07	0.00E+00
1106	ALL	483512.5	3717563	2.59E-07	0.67YrCanc	2.59E-07	0.00E+00
1107	ALL	483537.5	3717563	2.81E-07	0.67YrCanc	2.81E-07	0.00E+00
1108	ALL	483562.5	3717563	3.07E-07	0.67YrCanc	3.07E-07	0.00E+00
1109	ALL	483587.5	3717563	3.36E-07	0.67YrCanc	3.36E-07	0.00E+00
1110	ALL	483612.5	3717563	3.69E-07	0.67YrCanc	3.69E-07	0.00E+00
1111	ALL	483637.5	3717563	4.08E-07	0.67YrCanc	4.08E-07	0.00E+00
1112	ALL	483937.5	3717563	2.33E-06	0.67YrCanc	2.33E-06	0.00E+00
1113	ALL	483962.5	3717563	2.63E-06	0.67YrCanc	2.63E-06	0.00E+00
1114	ALL	483987.5	3717563	2.84E-06	0.67YrCanc	2.84E-06	0.00E+00
1115	ALL	484012.5	3717563	2.90E-06	0.67YrCanc	2.90E-06	0.00E+00
1116	ALL	484037.5	3717563	2.80E-06	0.67YrCanc	2.80E-06	0.00E+00
1117	ALL	484062.5	3717563	2.57E-06	0.67YrCanc	2.57E-06	0.00E+00
1118	ALL	483412.5	3717588	1.97E-07	0.67YrCanc	1.97E-07	0.00E+00
1119	ALL	483437.5	3717588	2.11E-07	0.67YrCanc	2.11E-07	0.00E+00
1120	ALL	483462.5	3717588	2.28E-07	0.67YrCanc	2.28E-07	0.00E+00
1121	ALL	483487.5	3717588	2.46E-07	0.67YrCanc	2.46E-07	0.00E+00
1122	ALL	483512.5	3717588	2.66E-07	0.67YrCanc	2.66E-07	0.00E+00
1123	ALL	483537.5	3717588	2.90E-07	0.67YrCanc	2.90E-07	0.00E+00
1124	ALL	483562.5	3717588	3.17E-07	0.67YrCanc	3.17E-07	0.00E+00
1125	ALL	483587.5	3717588	3.48E-07	0.67YrCanc	3.48E-07	0.00E+00
1126	ALL	483612.5	3717588	3.85E-07	0.67YrCanc	3.85E-07	0.00E+00
1127	ALL	483637.5	3717588	4.27E-07	0.67YrCanc	4.27E-07	0.00E+00
1128	ALL	484512.5	3717613	3.57E-07	0.67YrCanc	3.57E-07	0.00E+00
1129	ALL	484537.5	3717613	3.27E-07	0.67YrCanc	3.27E-07	0.00E+00
1130	ALL	484562.5	3717613	3.02E-07	0.67YrCanc	3.02E-07	0.00E+00
1131	ALL	484587.5	3717613	2.79E-07	0.67YrCanc	2.79E-07	0.00E+00
1132	ALL	484612.5	3717613	2.59E-07	0.67YrCanc	2.59E-07	0.00E+00
1133	ALL	484637.5	3717613	2.41E-07	0.67YrCanc	2.41E-07	0.00E+00
1134	ALL	484662.5	3717613	2.25E-07	0.67YrCanc	2.25E-07	0.00E+00
1135	ALL	484687.5	3717613	2.10E-07	0.67YrCanc	2.10E-07	0.00E+00
1136	ALL	484712.5	3717613	1.97E-07	0.67YrCanc	1.97E-07	0.00E+00
1137	ALL	484737.5	3717613	1.85E-07	0.67YrCanc	1.85E-07	0.00E+00
1138	ALL	484762.5	3717613	1.75E-07	0.67YrCanc	1.75E-07	0.00E+00
1139	ALL	484787.5	3717613	1.65E-07	0.67YrCanc	1.65E-07	0.00E+00
1140	ALL	484812.5	3717613	1.56E-07	0.67YrCanc	1.56E-07	0.00E+00
1141	ALL	484837.5	3717613	1.48E-07	0.67YrCanc	1.48E-07	0.00E+00
1142	ALL	484862.5	3717613	1.40E-07	0.67YrCanc	1.40E-07	0.00E+00

1143	ALL	484512.5	3717638	3.65E-07	0.67YrCanc	3.65E-07	0.00E+00
1144	ALL	484537.5	3717638	3.34E-07	0.67YrCanc	3.34E-07	0.00E+00
1145	ALL	484562.5	3717638	3.07E-07	0.67YrCanc	3.07E-07	0.00E+00
1146	ALL	484587.5	3717638	2.83E-07	0.67YrCanc	2.83E-07	0.00E+00
1147	ALL	484612.5	3717638	2.62E-07	0.67YrCanc	2.62E-07	0.00E+00
1148	ALL	484637.5	3717638	2.44E-07	0.67YrCanc	2.44E-07	0.00E+00
1149	ALL	484662.5	3717638	2.27E-07	0.67YrCanc	2.27E-07	0.00E+00
1150	ALL	484687.5	3717638	2.12E-07	0.67YrCanc	2.12E-07	0.00E+00
1151	ALL	484712.5	3717638	1.99E-07	0.67YrCanc	1.99E-07	0.00E+00
1152	ALL	484737.5	3717638	1.87E-07	0.67YrCanc	1.87E-07	0.00E+00
1153	ALL	484762.5	3717638	1.76E-07	0.67YrCanc	1.76E-07	0.00E+00
1154	ALL	484787.5	3717638	1.66E-07	0.67YrCanc	1.66E-07	0.00E+00
1155	ALL	484812.5	3717638	1.57E-07	0.67YrCanc	1.57E-07	0.00E+00
1156	ALL	484837.5	3717638	1.49E-07	0.67YrCanc	1.49E-07	0.00E+00
1157	ALL	484862.5	3717638	1.42E-07	0.67YrCanc	1.42E-07	0.00E+00
1158	ALL	484512.5	3717663	3.72E-07	0.67YrCanc	3.72E-07	0.00E+00
1159	ALL	484537.5	3717663	3.40E-07	0.67YrCanc	3.40E-07	0.00E+00
1160	ALL	484562.5	3717663	3.12E-07	0.67YrCanc	3.12E-07	0.00E+00
1161	ALL	484587.5	3717663	2.87E-07	0.67YrCanc	2.87E-07	0.00E+00
1162	ALL	484612.5	3717663	2.66E-07	0.67YrCanc	2.66E-07	0.00E+00
1163	ALL	484637.5	3717663	2.46E-07	0.67YrCanc	2.46E-07	0.00E+00
1164	ALL	484662.5	3717663	2.29E-07	0.67YrCanc	2.29E-07	0.00E+00
1165	ALL	484687.5	3717663	2.14E-07	0.67YrCanc	2.14E-07	0.00E+00
1166	ALL	484712.5	3717663	2.01E-07	0.67YrCanc	2.01E-07	0.00E+00
1167	ALL	484737.5	3717663	1.89E-07	0.67YrCanc	1.89E-07	0.00E+00
1168	ALL	484762.5	3717663	1.78E-07	0.67YrCanc	1.78E-07	0.00E+00
1169	ALL	484787.5	3717663	1.68E-07	0.67YrCanc	1.68E-07	0.00E+00
1170	ALL	484812.5	3717663	1.59E-07	0.67YrCanc	1.59E-07	0.00E+00
1171	ALL	484837.5	3717663	1.50E-07	0.67YrCanc	1.50E-07	0.00E+00
1172	ALL	484862.5	3717663	1.43E-07	0.67YrCanc	1.43E-07	0.00E+00
1173	ALL	484512.5	3717688	3.79E-07	0.67YrCanc	3.79E-07	0.00E+00
1174	ALL	484537.5	3717688	3.45E-07	0.67YrCanc	3.45E-07	0.00E+00
1175	ALL	484562.5	3717688	3.16E-07	0.67YrCanc	3.16E-07	0.00E+00
1176	ALL	484587.5	3717688	2.91E-07	0.67YrCanc	2.91E-07	0.00E+00
1177	ALL	484612.5	3717688	2.69E-07	0.67YrCanc	2.69E-07	0.00E+00
1178	ALL	484637.5	3717688	2.49E-07	0.67YrCanc	2.49E-07	0.00E+00
1179	ALL	484662.5	3717688	2.32E-07	0.67YrCanc	2.32E-07	0.00E+00
1180	ALL	484687.5	3717688	2.16E-07	0.67YrCanc	2.16E-07	0.00E+00
1181	ALL	484712.5	3717688	2.03E-07	0.67YrCanc	2.03E-07	0.00E+00
1182	ALL	484737.5	3717688	1.90E-07	0.67YrCanc	1.90E-07	0.00E+00
1183	ALL	484762.5	3717688	1.79E-07	0.67YrCanc	1.79E-07	0.00E+00
1184	ALL	484787.5	3717688	1.69E-07	0.67YrCanc	1.69E-07	0.00E+00
1185	ALL	484812.5	3717688	1.60E-07	0.67YrCanc	1.60E-07	0.00E+00
1186	ALL	484837.5	3717688	1.52E-07	0.67YrCanc	1.52E-07	0.00E+00

1187	ALL	484862.5	3717688	1.44E-07	0.67YrCanc	1.44E-07	0.00E+00
1188	ALL	484512.5	3717713	3.86E-07	0.67YrCanc	3.86E-07	0.00E+00
1189	ALL	484537.5	3717713	3.51E-07	0.67YrCanc	3.51E-07	0.00E+00
1190	ALL	484562.5	3717713	3.21E-07	0.67YrCanc	3.21E-07	0.00E+00
1191	ALL	484587.5	3717713	2.95E-07	0.67YrCanc	2.95E-07	0.00E+00
1192	ALL	484612.5	3717713	2.72E-07	0.67YrCanc	2.72E-07	0.00E+00
1193	ALL	484637.5	3717713	2.52E-07	0.67YrCanc	2.52E-07	0.00E+00
1194	ALL	484662.5	3717713	2.34E-07	0.67YrCanc	2.34E-07	0.00E+00
1195	ALL	484687.5	3717713	2.18E-07	0.67YrCanc	2.18E-07	0.00E+00
1196	ALL	484712.5	3717713	2.04E-07	0.67YrCanc	2.04E-07	0.00E+00
1197	ALL	484737.5	3717713	1.92E-07	0.67YrCanc	1.92E-07	0.00E+00
1198	ALL	484762.5	3717713	1.80E-07	0.67YrCanc	1.80E-07	0.00E+00
1199	ALL	484787.5	3717713	1.70E-07	0.67YrCanc	1.70E-07	0.00E+00
1200	ALL	484812.5	3717713	1.61E-07	0.67YrCanc	1.61E-07	0.00E+00
1201	ALL	484837.5	3717713	1.53E-07	0.67YrCanc	1.53E-07	0.00E+00
1202	ALL	484862.5	3717713	1.45E-07	0.67YrCanc	1.45E-07	0.00E+00
1203	ALL	484512.5	3717738	3.92E-07	0.67YrCanc	3.92E-07	0.00E+00
1204	ALL	484537.5	3717738	3.56E-07	0.67YrCanc	3.56E-07	0.00E+00
1205	ALL	484562.5	3717738	3.25E-07	0.67YrCanc	3.25E-07	0.00E+00
1206	ALL	484587.5	3717738	2.99E-07	0.67YrCanc	2.99E-07	0.00E+00
1207	ALL	484612.5	3717738	2.75E-07	0.67YrCanc	2.75E-07	0.00E+00
1208	ALL	484637.5	3717738	2.55E-07	0.67YrCanc	2.55E-07	0.00E+00
1209	ALL	484662.5	3717738	2.36E-07	0.67YrCanc	2.36E-07	0.00E+00
1210	ALL	484687.5	3717738	2.20E-07	0.67YrCanc	2.20E-07	0.00E+00
1211	ALL	484712.5	3717738	2.06E-07	0.67YrCanc	2.06E-07	0.00E+00
1212	ALL	484737.5	3717738	1.93E-07	0.67YrCanc	1.93E-07	0.00E+00
1213	ALL	484762.5	3717738	1.82E-07	0.67YrCanc	1.82E-07	0.00E+00
1214	ALL	484787.5	3717738	1.71E-07	0.67YrCanc	1.71E-07	0.00E+00
1215	ALL	484812.5	3717738	1.62E-07	0.67YrCanc	1.62E-07	0.00E+00
1216	ALL	484837.5	3717738	1.53E-07	0.67YrCanc	1.53E-07	0.00E+00
1217	ALL	484862.5	3717738	1.45E-07	0.67YrCanc	1.45E-07	0.00E+00
1218	ALL	484512.5	3717763	3.99E-07	0.67YrCanc	3.99E-07	0.00E+00
1219	ALL	484537.5	3717763	3.62E-07	0.67YrCanc	3.62E-07	0.00E+00
1220	ALL	484562.5	3717763	3.30E-07	0.67YrCanc	3.30E-07	0.00E+00
1221	ALL	484587.5	3717763	3.03E-07	0.67YrCanc	3.03E-07	0.00E+00
1222	ALL	484612.5	3717763	2.79E-07	0.67YrCanc	2.79E-07	0.00E+00
1223	ALL	484637.5	3717763	2.58E-07	0.67YrCanc	2.58E-07	0.00E+00
1224	ALL	484662.5	3717763	2.39E-07	0.67YrCanc	2.39E-07	0.00E+00
1225	ALL	484687.5	3717763	2.22E-07	0.67YrCanc	2.22E-07	0.00E+00
1226	ALL	484712.5	3717763	2.08E-07	0.67YrCanc	2.08E-07	0.00E+00
1227	ALL	484737.5	3717763	1.95E-07	0.67YrCanc	1.95E-07	0.00E+00
1228	ALL	484762.5	3717763	1.83E-07	0.67YrCanc	1.83E-07	0.00E+00
1229	ALL	484787.5	3717763	1.72E-07	0.67YrCanc	1.72E-07	0.00E+00
1230	ALL	484812.5	3717763	1.63E-07	0.67YrCanc	1.63E-07	0.00E+00

1231	ALL	484837.5	3717763	1.54E-07	0.67YrCanc	1.54E-07	0.00E+00
1232	ALL	484862.5	3717763	1.46E-07	0.67YrCanc	1.46E-07	0.00E+00
1233	ALL	484512.5	3717788	4.05E-07	0.67YrCanc	4.05E-07	0.00E+00
1234	ALL	484537.5	3717788	3.68E-07	0.67YrCanc	3.68E-07	0.00E+00
1235	ALL	484562.5	3717788	3.35E-07	0.67YrCanc	3.35E-07	0.00E+00
1236	ALL	484587.5	3717788	3.07E-07	0.67YrCanc	3.07E-07	0.00E+00
1237	ALL	484612.5	3717788	2.82E-07	0.67YrCanc	2.82E-07	0.00E+00
1238	ALL	484637.5	3717788	2.61E-07	0.67YrCanc	2.61E-07	0.00E+00
1239	ALL	484662.5	3717788	2.42E-07	0.67YrCanc	2.42E-07	0.00E+00
1240	ALL	484687.5	3717788	2.25E-07	0.67YrCanc	2.25E-07	0.00E+00
1241	ALL	484712.5	3717788	2.10E-07	0.67YrCanc	2.10E-07	0.00E+00
1242	ALL	484737.5	3717788	1.97E-07	0.67YrCanc	1.97E-07	0.00E+00
1243	ALL	484762.5	3717788	1.85E-07	0.67YrCanc	1.85E-07	0.00E+00
1244	ALL	484787.5	3717788	1.74E-07	0.67YrCanc	1.74E-07	0.00E+00
1245	ALL	484812.5	3717788	1.64E-07	0.67YrCanc	1.64E-07	0.00E+00
1246	ALL	484837.5	3717788	1.55E-07	0.67YrCanc	1.55E-07	0.00E+00
1247	ALL	484862.5	3717788	1.47E-07	0.67YrCanc	1.47E-07	0.00E+00
1248	ALL	483412.5	3717813	2.12E-07	0.67YrCanc	2.12E-07	0.00E+00
1249	ALL	483437.5	3717813	2.29E-07	0.67YrCanc	2.29E-07	0.00E+00
1250	ALL	483462.5	3717813	2.48E-07	0.67YrCanc	2.48E-07	0.00E+00
1251	ALL	483487.5	3717813	2.70E-07	0.67YrCanc	2.70E-07	0.00E+00
1252	ALL	484512.5	3717813	4.11E-07	0.67YrCanc	4.11E-07	0.00E+00
1253	ALL	484537.5	3717813	3.73E-07	0.67YrCanc	3.73E-07	0.00E+00
1254	ALL	484562.5	3717813	3.40E-07	0.67YrCanc	3.40E-07	0.00E+00
1255	ALL	484587.5	3717813	3.11E-07	0.67YrCanc	3.11E-07	0.00E+00
1256	ALL	484612.5	3717813	2.86E-07	0.67YrCanc	2.86E-07	0.00E+00
1257	ALL	484637.5	3717813	2.64E-07	0.67YrCanc	2.64E-07	0.00E+00
1258	ALL	484662.5	3717813	2.44E-07	0.67YrCanc	2.44E-07	0.00E+00
1259	ALL	484687.5	3717813	2.27E-07	0.67YrCanc	2.27E-07	0.00E+00
1260	ALL	484712.5	3717813	2.12E-07	0.67YrCanc	2.12E-07	0.00E+00
1261	ALL	484737.5	3717813	1.99E-07	0.67YrCanc	1.99E-07	0.00E+00
1262	ALL	484762.5	3717813	1.86E-07	0.67YrCanc	1.86E-07	0.00E+00
1263	ALL	484787.5	3717813	1.75E-07	0.67YrCanc	1.75E-07	0.00E+00
1264	ALL	484812.5	3717813	1.65E-07	0.67YrCanc	1.65E-07	0.00E+00
1265	ALL	484837.5	3717813	1.56E-07	0.67YrCanc	1.56E-07	0.00E+00
1266	ALL	484862.5	3717813	1.48E-07	0.67YrCanc	1.48E-07	0.00E+00
1267	ALL	483412.5	3717838	2.12E-07	0.67YrCanc	2.12E-07	0.00E+00
1268	ALL	483437.5	3717838	2.28E-07	0.67YrCanc	2.28E-07	0.00E+00
1269	ALL	483462.5	3717838	2.47E-07	0.67YrCanc	2.47E-07	0.00E+00
1270	ALL	483487.5	3717838	2.69E-07	0.67YrCanc	2.69E-07	0.00E+00
1271	ALL	483512.5	3717838	2.95E-07	0.67YrCanc	2.95E-07	0.00E+00
1272	ALL	484512.5	3717838	4.17E-07	0.67YrCanc	4.17E-07	0.00E+00
1273	ALL	484537.5	3717838	3.78E-07	0.67YrCanc	3.78E-07	0.00E+00
1274	ALL	484562.5	3717838	3.44E-07	0.67YrCanc	3.44E-07	0.00E+00

1275	ALL	484587.5	3717838	3.15E-07	0.67YrCanc	3.15E-07	0.00E+00
1276	ALL	484612.5	3717838	2.89E-07	0.67YrCanc	2.89E-07	0.00E+00
1277	ALL	484637.5	3717838	2.67E-07	0.67YrCanc	2.67E-07	0.00E+00
1278	ALL	484662.5	3717838	2.47E-07	0.67YrCanc	2.47E-07	0.00E+00
1279	ALL	484687.5	3717838	2.30E-07	0.67YrCanc	2.30E-07	0.00E+00
1280	ALL	484712.5	3717838	2.14E-07	0.67YrCanc	2.14E-07	0.00E+00
1281	ALL	484737.5	3717838	2.01E-07	0.67YrCanc	2.01E-07	0.00E+00
1282	ALL	484762.5	3717838	1.88E-07	0.67YrCanc	1.88E-07	0.00E+00
1283	ALL	484787.5	3717838	1.77E-07	0.67YrCanc	1.77E-07	0.00E+00
1284	ALL	484812.5	3717838	1.67E-07	0.67YrCanc	1.67E-07	0.00E+00
1285	ALL	484837.5	3717838	1.58E-07	0.67YrCanc	1.58E-07	0.00E+00
1286	ALL	484862.5	3717838	1.49E-07	0.67YrCanc	1.49E-07	0.00E+00
1287	ALL	483412.5	3717863	2.11E-07	0.67YrCanc	2.11E-07	0.00E+00
1288	ALL	483437.5	3717863	2.27E-07	0.67YrCanc	2.27E-07	0.00E+00
1289	ALL	483462.5	3717863	2.46E-07	0.67YrCanc	2.46E-07	0.00E+00
1290	ALL	483487.5	3717863	2.68E-07	0.67YrCanc	2.68E-07	0.00E+00
1291	ALL	483512.5	3717863	2.93E-07	0.67YrCanc	2.93E-07	0.00E+00
1292	ALL	484512.5	3717863	4.23E-07	0.67YrCanc	4.23E-07	0.00E+00
1293	ALL	484537.5	3717863	3.83E-07	0.67YrCanc	3.83E-07	0.00E+00
1294	ALL	484562.5	3717863	3.48E-07	0.67YrCanc	3.48E-07	0.00E+00
1295	ALL	484587.5	3717863	3.19E-07	0.67YrCanc	3.19E-07	0.00E+00
1296	ALL	484612.5	3717863	2.93E-07	0.67YrCanc	2.93E-07	0.00E+00
1297	ALL	484637.5	3717863	2.70E-07	0.67YrCanc	2.70E-07	0.00E+00
1298	ALL	484662.5	3717863	2.50E-07	0.67YrCanc	2.50E-07	0.00E+00
1299	ALL	484687.5	3717863	2.32E-07	0.67YrCanc	2.32E-07	0.00E+00
1300	ALL	484712.5	3717863	2.17E-07	0.67YrCanc	2.17E-07	0.00E+00
1301	ALL	484737.5	3717863	2.03E-07	0.67YrCanc	2.03E-07	0.00E+00
1302	ALL	484762.5	3717863	1.90E-07	0.67YrCanc	1.90E-07	0.00E+00
1303	ALL	484787.5	3717863	1.79E-07	0.67YrCanc	1.79E-07	0.00E+00
1304	ALL	484812.5	3717863	1.68E-07	0.67YrCanc	1.68E-07	0.00E+00
1305	ALL	484837.5	3717863	1.59E-07	0.67YrCanc	1.59E-07	0.00E+00
1306	ALL	484862.5	3717863	1.50E-07	0.67YrCanc	1.50E-07	0.00E+00
1307	ALL	483412.5	3717888	2.09E-07	0.67YrCanc	2.09E-07	0.00E+00
1308	ALL	483437.5	3717888	2.26E-07	0.67YrCanc	2.26E-07	0.00E+00
1309	ALL	483462.5	3717888	2.44E-07	0.67YrCanc	2.44E-07	0.00E+00
1310	ALL	483487.5	3717888	2.65E-07	0.67YrCanc	2.65E-07	0.00E+00
1311	ALL	483512.5	3717888	2.89E-07	0.67YrCanc	2.89E-07	0.00E+00
1312	ALL	483537.5	3717888	3.18E-07	0.67YrCanc	3.18E-07	0.00E+00
1313	ALL	484512.5	3717888	4.27E-07	0.67YrCanc	4.27E-07	0.00E+00
1314	ALL	484537.5	3717888	3.87E-07	0.67YrCanc	3.87E-07	0.00E+00
1315	ALL	484562.5	3717888	3.52E-07	0.67YrCanc	3.52E-07	0.00E+00
1316	ALL	484587.5	3717888	3.22E-07	0.67YrCanc	3.22E-07	0.00E+00
1317	ALL	484612.5	3717888	2.96E-07	0.67YrCanc	2.96E-07	0.00E+00
1318	ALL	484637.5	3717888	2.73E-07	0.67YrCanc	2.73E-07	0.00E+00

1319	ALL	484662.5	3717888	2.53E-07	0.67YrCanc	2.53E-07	0.00E+00
1320	ALL	484687.5	3717888	2.35E-07	0.67YrCanc	2.35E-07	0.00E+00
1321	ALL	484712.5	3717888	2.19E-07	0.67YrCanc	2.19E-07	0.00E+00
1322	ALL	484737.5	3717888	2.05E-07	0.67YrCanc	2.05E-07	0.00E+00
1323	ALL	484762.5	3717888	1.92E-07	0.67YrCanc	1.92E-07	0.00E+00
1324	ALL	484787.5	3717888	1.80E-07	0.67YrCanc	1.80E-07	0.00E+00
1325	ALL	484812.5	3717888	1.70E-07	0.67YrCanc	1.70E-07	0.00E+00
1326	ALL	484837.5	3717888	1.60E-07	0.67YrCanc	1.60E-07	0.00E+00
1327	ALL	484862.5	3717888	1.52E-07	0.67YrCanc	1.52E-07	0.00E+00
1328	ALL	483412.5	3717913	2.08E-07	0.67YrCanc	2.08E-07	0.00E+00
1329	ALL	483437.5	3717913	2.23E-07	0.67YrCanc	2.23E-07	0.00E+00
1330	ALL	483462.5	3717913	2.41E-07	0.67YrCanc	2.41E-07	0.00E+00
1331	ALL	483487.5	3717913	2.61E-07	0.67YrCanc	2.61E-07	0.00E+00
1332	ALL	483512.5	3717913	2.84E-07	0.67YrCanc	2.84E-07	0.00E+00
1333	ALL	483537.5	3717913	3.11E-07	0.67YrCanc	3.11E-07	0.00E+00
1334	ALL	483562.5	3717913	3.44E-07	0.67YrCanc	3.44E-07	0.00E+00
1335	ALL	484512.5	3717913	4.31E-07	0.67YrCanc	4.31E-07	0.00E+00
1336	ALL	484537.5	3717913	3.91E-07	0.67YrCanc	3.91E-07	0.00E+00
1337	ALL	484562.5	3717913	3.56E-07	0.67YrCanc	3.56E-07	0.00E+00
1338	ALL	484587.5	3717913	3.26E-07	0.67YrCanc	3.26E-07	0.00E+00
1339	ALL	484612.5	3717913	2.99E-07	0.67YrCanc	2.99E-07	0.00E+00
1340	ALL	484637.5	3717913	2.76E-07	0.67YrCanc	2.76E-07	0.00E+00
1341	ALL	484662.5	3717913	2.55E-07	0.67YrCanc	2.55E-07	0.00E+00
1342	ALL	484687.5	3717913	2.37E-07	0.67YrCanc	2.37E-07	0.00E+00
1343	ALL	484712.5	3717913	2.21E-07	0.67YrCanc	2.21E-07	0.00E+00
1344	ALL	484737.5	3717913	2.07E-07	0.67YrCanc	2.07E-07	0.00E+00
1345	ALL	484762.5	3717913	1.94E-07	0.67YrCanc	1.94E-07	0.00E+00
1346	ALL	484787.5	3717913	1.82E-07	0.67YrCanc	1.82E-07	0.00E+00
1347	ALL	484812.5	3717913	1.71E-07	0.67YrCanc	1.71E-07	0.00E+00
1348	ALL	484837.5	3717913	1.62E-07	0.67YrCanc	1.62E-07	0.00E+00
1349	ALL	484862.5	3717913	1.53E-07	0.67YrCanc	1.53E-07	0.00E+00
1350	ALL	483412.5	3717938	2.05E-07	0.67YrCanc	2.05E-07	0.00E+00
1351	ALL	483437.5	3717938	2.21E-07	0.67YrCanc	2.21E-07	0.00E+00
1352	ALL	483462.5	3717938	2.39E-07	0.67YrCanc	2.39E-07	0.00E+00
1353	ALL	483487.5	3717938	2.57E-07	0.67YrCanc	2.57E-07	0.00E+00
1354	ALL	483512.5	3717938	2.80E-07	0.67YrCanc	2.80E-07	0.00E+00
1355	ALL	483537.5	3717938	3.06E-07	0.67YrCanc	3.06E-07	0.00E+00
1356	ALL	483562.5	3717938	3.37E-07	0.67YrCanc	3.37E-07	0.00E+00
1357	ALL	483587.5	3717938	3.75E-07	0.67YrCanc	3.75E-07	0.00E+00
1358	ALL	484512.5	3717938	4.34E-07	0.67YrCanc	4.34E-07	0.00E+00
1359	ALL	484537.5	3717938	3.94E-07	0.67YrCanc	3.94E-07	0.00E+00
1360	ALL	484562.5	3717938	3.59E-07	0.67YrCanc	3.59E-07	0.00E+00
1361	ALL	484587.5	3717938	3.28E-07	0.67YrCanc	3.28E-07	0.00E+00
1362	ALL	484612.5	3717938	3.02E-07	0.67YrCanc	3.02E-07	0.00E+00

1363	ALL	484637.5	3717938	2.78E-07	0.67YrCanc	2.78E-07	0.00E+00
1364	ALL	484662.5	3717938	2.58E-07	0.67YrCanc	2.58E-07	0.00E+00
1365	ALL	484687.5	3717938	2.39E-07	0.67YrCanc	2.39E-07	0.00E+00
1366	ALL	484712.5	3717938	2.23E-07	0.67YrCanc	2.23E-07	0.00E+00
1367	ALL	484737.5	3717938	2.08E-07	0.67YrCanc	2.08E-07	0.00E+00
1368	ALL	484762.5	3717938	1.95E-07	0.67YrCanc	1.95E-07	0.00E+00
1369	ALL	484787.5	3717938	1.84E-07	0.67YrCanc	1.84E-07	0.00E+00
1370	ALL	484812.5	3717938	1.73E-07	0.67YrCanc	1.73E-07	0.00E+00
1371	ALL	484837.5	3717938	1.63E-07	0.67YrCanc	1.63E-07	0.00E+00
1372	ALL	484862.5	3717938	1.54E-07	0.67YrCanc	1.54E-07	0.00E+00
1373	ALL	483412.5	3717963	2.03E-07	0.67YrCanc	2.03E-07	0.00E+00
1374	ALL	483437.5	3717963	2.18E-07	0.67YrCanc	2.18E-07	0.00E+00
1375	ALL	483462.5	3717963	2.35E-07	0.67YrCanc	2.35E-07	0.00E+00
1376	ALL	483487.5	3717963	2.54E-07	0.67YrCanc	2.54E-07	0.00E+00
1377	ALL	483512.5	3717963	2.76E-07	0.67YrCanc	2.76E-07	0.00E+00
1378	ALL	483537.5	3717963	3.01E-07	0.67YrCanc	3.01E-07	0.00E+00
1379	ALL	483562.5	3717963	3.32E-07	0.67YrCanc	3.32E-07	0.00E+00
1380	ALL	483587.5	3717963	3.68E-07	0.67YrCanc	3.68E-07	0.00E+00
1381	ALL	483612.5	3717963	4.09E-07	0.67YrCanc	4.09E-07	0.00E+00
1382	ALL	484512.5	3717963	4.35E-07	0.67YrCanc	4.35E-07	0.00E+00
1383	ALL	484537.5	3717963	3.95E-07	0.67YrCanc	3.95E-07	0.00E+00
1384	ALL	484562.5	3717963	3.61E-07	0.67YrCanc	3.61E-07	0.00E+00
1385	ALL	484587.5	3717963	3.31E-07	0.67YrCanc	3.31E-07	0.00E+00
1386	ALL	484612.5	3717963	3.04E-07	0.67YrCanc	3.04E-07	0.00E+00
1387	ALL	484637.5	3717963	2.81E-07	0.67YrCanc	2.81E-07	0.00E+00
1388	ALL	484662.5	3717963	2.60E-07	0.67YrCanc	2.60E-07	0.00E+00
1389	ALL	484687.5	3717963	2.41E-07	0.67YrCanc	2.41E-07	0.00E+00
1390	ALL	484712.5	3717963	2.25E-07	0.67YrCanc	2.25E-07	0.00E+00
1391	ALL	484737.5	3717963	2.10E-07	0.67YrCanc	2.10E-07	0.00E+00
1392	ALL	484762.5	3717963	1.97E-07	0.67YrCanc	1.97E-07	0.00E+00
1393	ALL	484787.5	3717963	1.85E-07	0.67YrCanc	1.85E-07	0.00E+00
1394	ALL	484812.5	3717963	1.74E-07	0.67YrCanc	1.74E-07	0.00E+00
1395	ALL	484837.5	3717963	1.65E-07	0.67YrCanc	1.65E-07	0.00E+00
1396	ALL	484862.5	3717963	1.56E-07	0.67YrCanc	1.56E-07	0.00E+00
1397	ALL	483412.5	3717988	1.99E-07	0.67YrCanc	1.99E-07	0.00E+00
1398	ALL	483437.5	3717988	2.14E-07	0.67YrCanc	2.14E-07	0.00E+00
1399	ALL	483462.5	3717988	2.30E-07	0.67YrCanc	2.30E-07	0.00E+00
1400	ALL	483487.5	3717988	2.49E-07	0.67YrCanc	2.49E-07	0.00E+00
1401	ALL	483512.5	3717988	2.71E-07	0.67YrCanc	2.71E-07	0.00E+00
1402	ALL	483537.5	3717988	2.96E-07	0.67YrCanc	2.96E-07	0.00E+00
1403	ALL	483562.5	3717988	3.25E-07	0.67YrCanc	3.25E-07	0.00E+00
1404	ALL	483587.5	3717988	3.58E-07	0.67YrCanc	3.58E-07	0.00E+00
1405	ALL	483612.5	3717988	3.97E-07	0.67YrCanc	3.97E-07	0.00E+00
1406	ALL	484512.5	3717988	4.35E-07	0.67YrCanc	4.35E-07	0.00E+00

1407	ALL	484537.5	3717988	3.96E-07	0.67YrCanc	3.96E-07	0.00E+00
1408	ALL	484562.5	3717988	3.62E-07	0.67YrCanc	3.62E-07	0.00E+00
1409	ALL	484587.5	3717988	3.32E-07	0.67YrCanc	3.32E-07	0.00E+00
1410	ALL	484612.5	3717988	3.05E-07	0.67YrCanc	3.05E-07	0.00E+00
1411	ALL	484637.5	3717988	2.82E-07	0.67YrCanc	2.82E-07	0.00E+00
1412	ALL	484662.5	3717988	2.62E-07	0.67YrCanc	2.62E-07	0.00E+00
1413	ALL	484687.5	3717988	2.43E-07	0.67YrCanc	2.43E-07	0.00E+00
1414	ALL	484712.5	3717988	2.27E-07	0.67YrCanc	2.27E-07	0.00E+00
1415	ALL	484737.5	3717988	2.12E-07	0.67YrCanc	2.12E-07	0.00E+00
1416	ALL	484762.5	3717988	1.99E-07	0.67YrCanc	1.99E-07	0.00E+00
1417	ALL	484787.5	3717988	1.87E-07	0.67YrCanc	1.87E-07	0.00E+00
1418	ALL	484812.5	3717988	1.76E-07	0.67YrCanc	1.76E-07	0.00E+00
1419	ALL	484837.5	3717988	1.66E-07	0.67YrCanc	1.66E-07	0.00E+00
1420	ALL	484862.5	3717988	1.57E-07	0.67YrCanc	1.57E-07	0.00E+00
1421	ALL	483412.5	3718013	1.96E-07	0.67YrCanc	1.96E-07	0.00E+00
1422	ALL	483437.5	3718013	2.10E-07	0.67YrCanc	2.10E-07	0.00E+00
1423	ALL	483462.5	3718013	2.26E-07	0.67YrCanc	2.26E-07	0.00E+00
1424	ALL	483487.5	3718013	2.44E-07	0.67YrCanc	2.44E-07	0.00E+00
1425	ALL	483512.5	3718013	2.65E-07	0.67YrCanc	2.65E-07	0.00E+00
1426	ALL	483537.5	3718013	2.89E-07	0.67YrCanc	2.89E-07	0.00E+00
1427	ALL	483562.5	3718013	3.16E-07	0.67YrCanc	3.16E-07	0.00E+00
1428	ALL	483587.5	3718013	3.48E-07	0.67YrCanc	3.48E-07	0.00E+00
1429	ALL	483612.5	3718013	3.84E-07	0.67YrCanc	3.84E-07	0.00E+00
1430	ALL	483637.5	3718013	4.26E-07	0.67YrCanc	4.26E-07	0.00E+00
1431	ALL	484512.5	3718013	4.32E-07	0.67YrCanc	4.32E-07	0.00E+00
1432	ALL	484537.5	3718013	3.95E-07	0.67YrCanc	3.95E-07	0.00E+00
1433	ALL	484562.5	3718013	3.61E-07	0.67YrCanc	3.61E-07	0.00E+00
1434	ALL	484587.5	3718013	3.32E-07	0.67YrCanc	3.32E-07	0.00E+00
1435	ALL	484612.5	3718013	3.06E-07	0.67YrCanc	3.06E-07	0.00E+00
1436	ALL	484637.5	3718013	2.83E-07	0.67YrCanc	2.83E-07	0.00E+00
1437	ALL	484662.5	3718013	2.63E-07	0.67YrCanc	2.63E-07	0.00E+00
1438	ALL	484687.5	3718013	2.44E-07	0.67YrCanc	2.44E-07	0.00E+00
1439	ALL	484712.5	3718013	2.28E-07	0.67YrCanc	2.28E-07	0.00E+00
1440	ALL	484737.5	3718013	2.13E-07	0.67YrCanc	2.13E-07	0.00E+00
1441	ALL	484762.5	3718013	2.00E-07	0.67YrCanc	2.00E-07	0.00E+00
1442	ALL	484787.5	3718013	1.88E-07	0.67YrCanc	1.88E-07	0.00E+00
1443	ALL	484812.5	3718013	1.77E-07	0.67YrCanc	1.77E-07	0.00E+00
1444	ALL	484837.5	3718013	1.67E-07	0.67YrCanc	1.67E-07	0.00E+00
1445	ALL	484862.5	3718013	1.58E-07	0.67YrCanc	1.58E-07	0.00E+00
1446	ALL	483412.5	3718038	1.92E-07	0.67YrCanc	1.92E-07	0.00E+00
1447	ALL	483437.5	3718038	2.05E-07	0.67YrCanc	2.05E-07	0.00E+00
1448	ALL	483462.5	3718038	2.21E-07	0.67YrCanc	2.21E-07	0.00E+00
1449	ALL	483487.5	3718038	2.38E-07	0.67YrCanc	2.38E-07	0.00E+00
1450	ALL	483512.5	3718038	2.58E-07	0.67YrCanc	2.58E-07	0.00E+00

1451	ALL	483537.5	3718038	2.81E-07	0.67YrCanc	2.81E-07	0.00E+00
1452	ALL	483562.5	3718038	3.08E-07	0.67YrCanc	3.08E-07	0.00E+00
1453	ALL	483587.5	3718038	3.36E-07	0.67YrCanc	3.36E-07	0.00E+00
1454	ALL	483612.5	3718038	3.69E-07	0.67YrCanc	3.69E-07	0.00E+00
1455	ALL	483637.5	3718038	4.09E-07	0.67YrCanc	4.09E-07	0.00E+00
1456	ALL	483662.5	3718038	4.54E-07	0.67YrCanc	4.54E-07	0.00E+00
1457	ALL	484512.5	3718038	4.28E-07	0.67YrCanc	4.28E-07	0.00E+00
1458	ALL	484537.5	3718038	3.92E-07	0.67YrCanc	3.92E-07	0.00E+00
1459	ALL	484562.5	3718038	3.60E-07	0.67YrCanc	3.60E-07	0.00E+00
1460	ALL	484587.5	3718038	3.31E-07	0.67YrCanc	3.31E-07	0.00E+00
1461	ALL	484612.5	3718038	3.06E-07	0.67YrCanc	3.06E-07	0.00E+00
1462	ALL	484637.5	3718038	2.83E-07	0.67YrCanc	2.83E-07	0.00E+00
1463	ALL	484662.5	3718038	2.63E-07	0.67YrCanc	2.63E-07	0.00E+00
1464	ALL	484687.5	3718038	2.45E-07	0.67YrCanc	2.45E-07	0.00E+00
1465	ALL	484712.5	3718038	2.29E-07	0.67YrCanc	2.29E-07	0.00E+00
1466	ALL	484737.5	3718038	2.14E-07	0.67YrCanc	2.14E-07	0.00E+00
1467	ALL	484762.5	3718038	2.01E-07	0.67YrCanc	2.01E-07	0.00E+00
1468	ALL	484787.5	3718038	1.89E-07	0.67YrCanc	1.89E-07	0.00E+00
1469	ALL	484812.5	3718038	1.78E-07	0.67YrCanc	1.78E-07	0.00E+00
1470	ALL	484837.5	3718038	1.68E-07	0.67YrCanc	1.68E-07	0.00E+00
1471	ALL	484862.5	3718038	1.59E-07	0.67YrCanc	1.59E-07	0.00E+00
1472	ALL	483412.5	3718063	1.87E-07	0.67YrCanc	1.87E-07	0.00E+00
1473	ALL	483437.5	3718063	2.00E-07	0.67YrCanc	2.00E-07	0.00E+00
1474	ALL	483462.5	3718063	2.15E-07	0.67YrCanc	2.15E-07	0.00E+00
1475	ALL	483487.5	3718063	2.32E-07	0.67YrCanc	2.32E-07	0.00E+00
1476	ALL	483512.5	3718063	2.52E-07	0.67YrCanc	2.52E-07	0.00E+00
1477	ALL	483537.5	3718063	2.73E-07	0.67YrCanc	2.73E-07	0.00E+00
1478	ALL	483562.5	3718063	2.98E-07	0.67YrCanc	2.98E-07	0.00E+00
1479	ALL	483587.5	3718063	3.25E-07	0.67YrCanc	3.25E-07	0.00E+00
1480	ALL	483612.5	3718063	3.55E-07	0.67YrCanc	3.55E-07	0.00E+00
1481	ALL	483637.5	3718063	3.92E-07	0.67YrCanc	3.92E-07	0.00E+00
1482	ALL	483662.5	3718063	4.32E-07	0.67YrCanc	4.32E-07	0.00E+00
1483	ALL	484512.5	3718063	4.21E-07	0.67YrCanc	4.21E-07	0.00E+00
1484	ALL	484537.5	3718063	3.87E-07	0.67YrCanc	3.87E-07	0.00E+00
1485	ALL	484562.5	3718063	3.57E-07	0.67YrCanc	3.57E-07	0.00E+00
1486	ALL	484587.5	3718063	3.29E-07	0.67YrCanc	3.29E-07	0.00E+00
1487	ALL	484612.5	3718063	3.05E-07	0.67YrCanc	3.05E-07	0.00E+00
1488	ALL	484637.5	3718063	2.83E-07	0.67YrCanc	2.83E-07	0.00E+00
1489	ALL	484662.5	3718063	2.63E-07	0.67YrCanc	2.63E-07	0.00E+00
1490	ALL	484687.5	3718063	2.45E-07	0.67YrCanc	2.45E-07	0.00E+00
1491	ALL	483412.5	3718088	1.82E-07	0.67YrCanc	1.82E-07	0.00E+00
1492	ALL	483437.5	3718088	1.94E-07	0.67YrCanc	1.94E-07	0.00E+00
1493	ALL	483462.5	3718088	2.09E-07	0.67YrCanc	2.09E-07	0.00E+00
1494	ALL	483487.5	3718088	2.26E-07	0.67YrCanc	2.26E-07	0.00E+00

1495	ALL	483512.5	3718088	2.44E-07	0.67YrCanc	2.44E-07	0.00E+00
1496	ALL	483537.5	3718088	2.65E-07	0.67YrCanc	2.65E-07	0.00E+00
1497	ALL	483562.5	3718088	2.88E-07	0.67YrCanc	2.88E-07	0.00E+00
1498	ALL	483587.5	3718088	3.13E-07	0.67YrCanc	3.13E-07	0.00E+00
1499	ALL	483612.5	3718088	3.43E-07	0.67YrCanc	3.43E-07	0.00E+00
1500	ALL	483637.5	3718088	3.75E-07	0.67YrCanc	3.75E-07	0.00E+00
1501	ALL	483662.5	3718088	4.09E-07	0.67YrCanc	4.09E-07	0.00E+00
1502	ALL	484512.5	3718088	4.13E-07	0.67YrCanc	4.13E-07	0.00E+00
1503	ALL	484537.5	3718088	3.81E-07	0.67YrCanc	3.81E-07	0.00E+00
1504	ALL	484562.5	3718088	3.52E-07	0.67YrCanc	3.52E-07	0.00E+00
1505	ALL	484587.5	3718088	3.26E-07	0.67YrCanc	3.26E-07	0.00E+00
1506	ALL	484612.5	3718088	3.02E-07	0.67YrCanc	3.02E-07	0.00E+00
1507	ALL	484637.5	3718088	2.81E-07	0.67YrCanc	2.81E-07	0.00E+00
1508	ALL	484662.5	3718088	2.62E-07	0.67YrCanc	2.62E-07	0.00E+00
1509	ALL	484687.5	3718088	2.45E-07	0.67YrCanc	2.45E-07	0.00E+00
1510	ALL	483412.5	3718113	1.77E-07	0.67YrCanc	1.77E-07	0.00E+00
1511	ALL	483437.5	3718113	1.89E-07	0.67YrCanc	1.89E-07	0.00E+00
1512	ALL	483462.5	3718113	2.04E-07	0.67YrCanc	2.04E-07	0.00E+00
1513	ALL	483487.5	3718113	2.20E-07	0.67YrCanc	2.20E-07	0.00E+00
1514	ALL	483512.5	3718113	2.37E-07	0.67YrCanc	2.37E-07	0.00E+00
1515	ALL	483537.5	3718113	2.56E-07	0.67YrCanc	2.56E-07	0.00E+00
1516	ALL	483562.5	3718113	2.77E-07	0.67YrCanc	2.77E-07	0.00E+00
1517	ALL	483587.5	3718113	3.02E-07	0.67YrCanc	3.02E-07	0.00E+00
1518	ALL	483612.5	3718113	3.28E-07	0.67YrCanc	3.28E-07	0.00E+00
1519	ALL	483637.5	3718113	3.56E-07	0.67YrCanc	3.56E-07	0.00E+00
1520	ALL	483662.5	3718113	3.87E-07	0.67YrCanc	3.87E-07	0.00E+00
1521	ALL	483687.5	3718113	4.23E-07	0.67YrCanc	4.23E-07	0.00E+00
1522	ALL	484512.5	3718113	4.03E-07	0.67YrCanc	4.03E-07	0.00E+00
1523	ALL	484537.5	3718113	3.73E-07	0.67YrCanc	3.73E-07	0.00E+00
1524	ALL	484562.5	3718113	3.46E-07	0.67YrCanc	3.46E-07	0.00E+00
1525	ALL	484587.5	3718113	3.21E-07	0.67YrCanc	3.21E-07	0.00E+00
1526	ALL	484612.5	3718113	2.99E-07	0.67YrCanc	2.99E-07	0.00E+00
1527	ALL	484637.5	3718113	2.79E-07	0.67YrCanc	2.79E-07	0.00E+00
1528	ALL	484662.5	3718113	2.60E-07	0.67YrCanc	2.60E-07	0.00E+00
1529	ALL	484687.5	3718113	2.44E-07	0.67YrCanc	2.44E-07	0.00E+00
1530	ALL	483412.5	3718138	1.74E-07	0.67YrCanc	1.74E-07	0.00E+00
1531	ALL	483437.5	3718138	1.86E-07	0.67YrCanc	1.86E-07	0.00E+00
1532	ALL	483462.5	3718138	2.00E-07	0.67YrCanc	2.00E-07	0.00E+00
1533	ALL	483487.5	3718138	2.14E-07	0.67YrCanc	2.14E-07	0.00E+00
1534	ALL	483512.5	3718138	2.30E-07	0.67YrCanc	2.30E-07	0.00E+00
1535	ALL	483537.5	3718138	2.47E-07	0.67YrCanc	2.47E-07	0.00E+00
1536	ALL	483562.5	3718138	2.67E-07	0.67YrCanc	2.67E-07	0.00E+00
1537	ALL	483587.5	3718138	2.88E-07	0.67YrCanc	2.88E-07	0.00E+00
1538	ALL	483612.5	3718138	3.12E-07	0.67YrCanc	3.12E-07	0.00E+00

1539	ALL	483637.5	3718138	3.38E-07	0.67YrCanc	3.38E-07	0.00E+00
1540	ALL	483662.5	3718138	3.67E-07	0.67YrCanc	3.67E-07	0.00E+00
1541	ALL	483687.5	3718138	3.99E-07	0.67YrCanc	3.99E-07	0.00E+00
1542	ALL	484512.5	3718138	3.91E-07	0.67YrCanc	3.91E-07	0.00E+00
1543	ALL	484537.5	3718138	3.63E-07	0.67YrCanc	3.63E-07	0.00E+00
1544	ALL	484562.5	3718138	3.38E-07	0.67YrCanc	3.38E-07	0.00E+00
1545	ALL	484587.5	3718138	3.15E-07	0.67YrCanc	3.15E-07	0.00E+00
1546	ALL	484612.5	3718138	2.95E-07	0.67YrCanc	2.95E-07	0.00E+00
1547	ALL	484637.5	3718138	2.75E-07	0.67YrCanc	2.75E-07	0.00E+00
1548	ALL	484662.5	3718138	2.58E-07	0.67YrCanc	2.58E-07	0.00E+00
1549	ALL	484687.5	3718138	2.42E-07	0.67YrCanc	2.42E-07	0.00E+00
1550	ALL	483412.5	3718163	1.71E-07	0.67YrCanc	1.71E-07	0.00E+00
1551	ALL	483437.5	3718163	1.82E-07	0.67YrCanc	1.82E-07	0.00E+00
1552	ALL	483462.5	3718163	1.95E-07	0.67YrCanc	1.95E-07	0.00E+00
1553	ALL	483487.5	3718163	2.09E-07	0.67YrCanc	2.09E-07	0.00E+00
1554	ALL	483512.5	3718163	2.24E-07	0.67YrCanc	2.24E-07	0.00E+00
1555	ALL	483537.5	3718163	2.40E-07	0.67YrCanc	2.40E-07	0.00E+00
1556	ALL	483562.5	3718163	2.57E-07	0.67YrCanc	2.57E-07	0.00E+00
1557	ALL	483587.5	3718163	2.76E-07	0.67YrCanc	2.76E-07	0.00E+00
1558	ALL	483612.5	3718163	2.98E-07	0.67YrCanc	2.98E-07	0.00E+00
1559	ALL	483637.5	3718163	3.22E-07	0.67YrCanc	3.22E-07	0.00E+00
1560	ALL	483662.5	3718163	3.48E-07	0.67YrCanc	3.48E-07	0.00E+00
1561	ALL	483687.5	3718163	3.76E-07	0.67YrCanc	3.76E-07	0.00E+00
1562	ALL	484512.5	3718163	3.77E-07	0.67YrCanc	3.77E-07	0.00E+00
1563	ALL	484537.5	3718163	3.52E-07	0.67YrCanc	3.52E-07	0.00E+00
1564	ALL	484562.5	3718163	3.30E-07	0.67YrCanc	3.30E-07	0.00E+00
1565	ALL	484587.5	3718163	3.09E-07	0.67YrCanc	3.09E-07	0.00E+00
1566	ALL	484612.5	3718163	2.89E-07	0.67YrCanc	2.89E-07	0.00E+00
1567	ALL	484637.5	3718163	2.71E-07	0.67YrCanc	2.71E-07	0.00E+00
1568	ALL	484662.5	3718163	2.55E-07	0.67YrCanc	2.55E-07	0.00E+00
1569	ALL	484687.5	3718163	2.39E-07	0.67YrCanc	2.39E-07	0.00E+00
1570	ALL	484712.5	3718163	2.25E-07	0.67YrCanc	2.25E-07	0.00E+00
1571	ALL	484737.5	3718163	2.12E-07	0.67YrCanc	2.12E-07	0.00E+00
1572	ALL	484762.5	3718163	2.00E-07	0.67YrCanc	2.00E-07	0.00E+00
1573	ALL	484787.5	3718163	1.89E-07	0.67YrCanc	1.89E-07	0.00E+00
1574	ALL	484812.5	3718163	1.79E-07	0.67YrCanc	1.79E-07	0.00E+00
1575	ALL	484837.5	3718163	1.70E-07	0.67YrCanc	1.70E-07	0.00E+00
1576	ALL	484862.5	3718163	1.61E-07	0.67YrCanc	1.61E-07	0.00E+00
1577	ALL	483412.5	3718188	1.68E-07	0.67YrCanc	1.68E-07	0.00E+00
1578	ALL	483437.5	3718188	1.78E-07	0.67YrCanc	1.78E-07	0.00E+00
1579	ALL	483462.5	3718188	1.90E-07	0.67YrCanc	1.90E-07	0.00E+00
1580	ALL	483487.5	3718188	2.03E-07	0.67YrCanc	2.03E-07	0.00E+00
1581	ALL	483512.5	3718188	2.17E-07	0.67YrCanc	2.17E-07	0.00E+00
1582	ALL	483537.5	3718188	2.33E-07	0.67YrCanc	2.33E-07	0.00E+00

1583	ALL	483562.5	3718188	2.48E-07	0.67YrCanc	2.48E-07	0.00E+00
1584	ALL	484512.5	3718188	3.63E-07	0.67YrCanc	3.63E-07	0.00E+00
1585	ALL	484537.5	3718188	3.41E-07	0.67YrCanc	3.41E-07	0.00E+00
1586	ALL	484562.5	3718188	3.20E-07	0.67YrCanc	3.20E-07	0.00E+00
1587	ALL	484587.5	3718188	3.01E-07	0.67YrCanc	3.01E-07	0.00E+00
1588	ALL	484612.5	3718188	2.83E-07	0.67YrCanc	2.83E-07	0.00E+00
1589	ALL	484637.5	3718188	2.66E-07	0.67YrCanc	2.66E-07	0.00E+00
1590	ALL	484662.5	3718188	2.50E-07	0.67YrCanc	2.50E-07	0.00E+00
1591	ALL	484687.5	3718188	2.36E-07	0.67YrCanc	2.36E-07	0.00E+00
1592	ALL	484712.5	3718188	2.23E-07	0.67YrCanc	2.23E-07	0.00E+00
1593	ALL	484737.5	3718188	2.10E-07	0.67YrCanc	2.10E-07	0.00E+00
1594	ALL	484762.5	3718188	1.99E-07	0.67YrCanc	1.99E-07	0.00E+00
1595	ALL	484787.5	3718188	1.88E-07	0.67YrCanc	1.88E-07	0.00E+00
1596	ALL	484812.5	3718188	1.78E-07	0.67YrCanc	1.78E-07	0.00E+00
1597	ALL	484837.5	3718188	1.69E-07	0.67YrCanc	1.69E-07	0.00E+00
1598	ALL	484862.5	3718188	1.61E-07	0.67YrCanc	1.61E-07	0.00E+00
1599	ALL	484162.5	3718213	6.14E-07	0.67YrCanc	6.14E-07	0.00E+00
1600	ALL	484187.5	3718213	6.09E-07	0.67YrCanc	6.09E-07	0.00E+00
1601	ALL	484212.5	3718213	5.99E-07	0.67YrCanc	5.99E-07	0.00E+00
1602	ALL	484512.5	3718213	3.47E-07	0.67YrCanc	3.47E-07	0.00E+00
1603	ALL	484537.5	3718213	3.28E-07	0.67YrCanc	3.28E-07	0.00E+00
1604	ALL	484562.5	3718213	3.09E-07	0.67YrCanc	3.09E-07	0.00E+00
1605	ALL	484587.5	3718213	2.92E-07	0.67YrCanc	2.92E-07	0.00E+00
1606	ALL	484612.5	3718213	2.75E-07	0.67YrCanc	2.75E-07	0.00E+00
1607	ALL	484637.5	3718213	2.60E-07	0.67YrCanc	2.60E-07	0.00E+00
1608	ALL	484662.5	3718213	2.46E-07	0.67YrCanc	2.46E-07	0.00E+00
1609	ALL	484687.5	3718213	2.32E-07	0.67YrCanc	2.32E-07	0.00E+00
1610	ALL	484712.5	3718213	2.20E-07	0.67YrCanc	2.20E-07	0.00E+00
1611	ALL	484737.5	3718213	2.08E-07	0.67YrCanc	2.08E-07	0.00E+00
1612	ALL	484762.5	3718213	1.97E-07	0.67YrCanc	1.97E-07	0.00E+00
1613	ALL	484787.5	3718213	1.87E-07	0.67YrCanc	1.87E-07	0.00E+00
1614	ALL	484812.5	3718213	1.77E-07	0.67YrCanc	1.77E-07	0.00E+00
1615	ALL	484837.5	3718213	1.69E-07	0.67YrCanc	1.69E-07	0.00E+00
1616	ALL	484862.5	3718213	1.60E-07	0.67YrCanc	1.60E-07	0.00E+00
1617	ALL	484512.5	3718238	3.32E-07	0.67YrCanc	3.32E-07	0.00E+00
1618	ALL	484537.5	3718238	3.14E-07	0.67YrCanc	3.14E-07	0.00E+00
1619	ALL	484562.5	3718238	2.98E-07	0.67YrCanc	2.98E-07	0.00E+00
1620	ALL	484587.5	3718238	2.82E-07	0.67YrCanc	2.82E-07	0.00E+00
1621	ALL	484612.5	3718238	2.67E-07	0.67YrCanc	2.67E-07	0.00E+00
1622	ALL	484637.5	3718238	2.53E-07	0.67YrCanc	2.53E-07	0.00E+00
1623	ALL	484662.5	3718238	2.40E-07	0.67YrCanc	2.40E-07	0.00E+00
1624	ALL	484687.5	3718238	2.28E-07	0.67YrCanc	2.28E-07	0.00E+00
1625	ALL	484712.5	3718238	2.16E-07	0.67YrCanc	2.16E-07	0.00E+00
1626	ALL	484737.5	3718238	2.05E-07	0.67YrCanc	2.05E-07	0.00E+00

1627	ALL	484762.5	3718238	1.95E-07	0.67YrCanc	1.95E-07	0.00E+00
1628	ALL	484787.5	3718238	1.85E-07	0.67YrCanc	1.85E-07	0.00E+00
1629	ALL	484812.5	3718238	1.76E-07	0.67YrCanc	1.76E-07	0.00E+00
1630	ALL	484837.5	3718238	1.67E-07	0.67YrCanc	1.67E-07	0.00E+00
1631	ALL	484862.5	3718238	1.59E-07	0.67YrCanc	1.59E-07	0.00E+00
1632	ALL	483412.5	3718263	1.55E-07	0.67YrCanc	1.55E-07	0.00E+00
1633	ALL	483437.5	3718263	1.63E-07	0.67YrCanc	1.63E-07	0.00E+00
1634	ALL	484137.5	3718263	4.74E-07	0.67YrCanc	4.74E-07	0.00E+00
1635	ALL	484162.5	3718263	4.75E-07	0.67YrCanc	4.75E-07	0.00E+00
1636	ALL	484212.5	3718263	4.70E-07	0.67YrCanc	4.70E-07	0.00E+00
1637	ALL	484512.5	3718263	3.16E-07	0.67YrCanc	3.16E-07	0.00E+00
1638	ALL	484537.5	3718263	3.01E-07	0.67YrCanc	3.01E-07	0.00E+00
1639	ALL	484562.5	3718263	2.86E-07	0.67YrCanc	2.86E-07	0.00E+00
1640	ALL	484587.5	3718263	2.72E-07	0.67YrCanc	2.72E-07	0.00E+00
1641	ALL	484612.5	3718263	2.59E-07	0.67YrCanc	2.59E-07	0.00E+00
1642	ALL	484637.5	3718263	2.46E-07	0.67YrCanc	2.46E-07	0.00E+00
1643	ALL	484662.5	3718263	2.34E-07	0.67YrCanc	2.34E-07	0.00E+00
1644	ALL	484687.5	3718263	2.23E-07	0.67YrCanc	2.23E-07	0.00E+00
1645	ALL	484712.5	3718263	2.12E-07	0.67YrCanc	2.12E-07	0.00E+00
1646	ALL	484737.5	3718263	2.01E-07	0.67YrCanc	2.01E-07	0.00E+00
1647	ALL	484762.5	3718263	1.92E-07	0.67YrCanc	1.92E-07	0.00E+00
1648	ALL	484787.5	3718263	1.82E-07	0.67YrCanc	1.82E-07	0.00E+00
1649	ALL	484812.5	3718263	1.74E-07	0.67YrCanc	1.74E-07	0.00E+00
1650	ALL	484837.5	3718263	1.66E-07	0.67YrCanc	1.66E-07	0.00E+00
1651	ALL	484862.5	3718263	1.58E-07	0.67YrCanc	1.58E-07	0.00E+00
1652	ALL	483412.5	3718288	1.52E-07	0.67YrCanc	1.52E-07	0.00E+00
1653	ALL	483437.5	3718288	1.59E-07	0.67YrCanc	1.59E-07	0.00E+00
1654	ALL	484212.5	3718288	4.20E-07	0.67YrCanc	4.20E-07	0.00E+00
1655	ALL	484512.5	3718288	3.00E-07	0.67YrCanc	3.00E-07	0.00E+00
1656	ALL	484537.5	3718288	2.87E-07	0.67YrCanc	2.87E-07	0.00E+00
1657	ALL	484562.5	3718288	2.74E-07	0.67YrCanc	2.74E-07	0.00E+00
1658	ALL	484587.5	3718288	2.62E-07	0.67YrCanc	2.62E-07	0.00E+00
1659	ALL	484612.5	3718288	2.50E-07	0.67YrCanc	2.50E-07	0.00E+00
1660	ALL	484637.5	3718288	2.39E-07	0.67YrCanc	2.39E-07	0.00E+00
1661	ALL	484662.5	3718288	2.28E-07	0.67YrCanc	2.28E-07	0.00E+00
1662	ALL	484687.5	3718288	2.17E-07	0.67YrCanc	2.17E-07	0.00E+00
1663	ALL	484712.5	3718288	2.07E-07	0.67YrCanc	2.07E-07	0.00E+00
1664	ALL	484737.5	3718288	1.97E-07	0.67YrCanc	1.97E-07	0.00E+00
1665	ALL	484762.5	3718288	1.88E-07	0.67YrCanc	1.88E-07	0.00E+00
1666	ALL	484787.5	3718288	1.80E-07	0.67YrCanc	1.80E-07	0.00E+00
1667	ALL	484812.5	3718288	1.72E-07	0.67YrCanc	1.72E-07	0.00E+00
1668	ALL	484837.5	3718288	1.64E-07	0.67YrCanc	1.64E-07	0.00E+00
1669	ALL	484862.5	3718288	1.57E-07	0.67YrCanc	1.57E-07	0.00E+00
1670	ALL	483412.5	3718313	1.47E-07	0.67YrCanc	1.47E-07	0.00E+00

1671	ALL	483437.5	3718313	1.54E-07	0.67YrCanc	1.54E-07	0.00E+00
1672	ALL	484187.5	3718313	3.79E-07	0.67YrCanc	3.79E-07	0.00E+00
1673	ALL	483412.5	3718338	1.43E-07	0.67YrCanc	1.43E-07	0.00E+00
1674	ALL	483437.5	3718338	1.50E-07	0.67YrCanc	1.50E-07	0.00E+00
1675	ALL	484187.5	3718338	3.42E-07	0.67YrCanc	3.42E-07	0.00E+00
1676	ALL	483412.5	3718413	1.31E-07	0.67YrCanc	1.31E-07	0.00E+00
1677	ALL	483437.5	3718413	1.38E-07	0.67YrCanc	1.38E-07	0.00E+00
1678	ALL	483412.5	3718438	1.26E-07	0.67YrCanc	1.26E-07	0.00E+00
1679	ALL	483437.5	3718438	1.33E-07	0.67YrCanc	1.33E-07	0.00E+00
1680	ALL	484462.5	3718463	2.10E-07	0.67YrCanc	2.10E-07	0.00E+00
1681	ALL	484487.5	3718463	2.07E-07	0.67YrCanc	2.07E-07	0.00E+00
1682	ALL	484462.5	3718488	1.99E-07	0.67YrCanc	1.99E-07	0.00E+00
1683	ALL	484487.5	3718488	1.96E-07	0.67YrCanc	1.96E-07	0.00E+00

\1. Projects\10773 Retail Development Advisors - Murrieta EIR\HRA\HARP2\CurciConUnmit\hra\CurciU

DERMAL_R	MMILK_RIS	WATER_RI	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RISI	PIG_RISK	CHICKEN_R
0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

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0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

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0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

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0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

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0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

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0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

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HARP2 - HRACalc (dated 19044) 4/16/2020 3:56:29 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: Cancer
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 0.67

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 0.67
2<9 Years Bin: 0
2<16 Years Bin: 0
16<30 Years Bin: 0
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: RMP

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: ON

****
SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.02
Soil mixing depth (m): 0.01
Dermal climate: Mixed

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed
Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to: C:\Users\swang\Documents\1. Projects\10773 Retail Development Advisors - Murrieta EIR\HRA\HARP2\CurciConUnmit\hra\CurciUnmit0.67yrCancerCancerRisk.csv
Cancer risk total by receptor saved to: C:\Users\swang\Documents\1. Projects\10773 Retail Development Advisors - Murrieta EIR\HRA\HARP2\CurciConUnmit\hra\CurciUnmit0.67yrCancerCancerRiskSumByRec.csv
HRA ran successfully

*HARP - HRACalc v19044 4/16/2020 3:56:42 PM - Chronic Risk - Input File: C:\Users\swang\Documents

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN
1	ALL		481950	3715450	NonCancer	0.00E+00	0.00E+00	0.00E+00
2	ALL		482050	3715450	NonCancer	0.00E+00	0.00E+00	0.00E+00
3	ALL		482150	3715450	NonCancer	0.00E+00	0.00E+00	0.00E+00
4	ALL		482250	3715450	NonCancer	0.00E+00	0.00E+00	0.00E+00
5	ALL		482350	3715450	NonCancer	0.00E+00	0.00E+00	0.00E+00
6	ALL		482450	3715450	NonCancer	0.00E+00	0.00E+00	0.00E+00
7	ALL		482550	3715450	NonCancer	0.00E+00	0.00E+00	0.00E+00
8	ALL		482650	3715450	NonCancer	0.00E+00	0.00E+00	0.00E+00
9	ALL		482750	3715450	NonCancer	0.00E+00	0.00E+00	0.00E+00
10	ALL		482850	3715450	NonCancer	0.00E+00	0.00E+00	0.00E+00
11	ALL		482950	3715450	NonCancer	0.00E+00	0.00E+00	0.00E+00
12	ALL		483050	3715450	NonCancer	0.00E+00	0.00E+00	0.00E+00
13	ALL		483150	3715450	NonCancer	0.00E+00	0.00E+00	0.00E+00
14	ALL		483250	3715450	NonCancer	0.00E+00	0.00E+00	0.00E+00
15	ALL		483350	3715450	NonCancer	0.00E+00	0.00E+00	0.00E+00
16	ALL		483450	3715450	NonCancer	0.00E+00	0.00E+00	0.00E+00
17	ALL		483550	3715450	NonCancer	0.00E+00	0.00E+00	0.00E+00
18	ALL		483650	3715450	NonCancer	0.00E+00	0.00E+00	0.00E+00
19	ALL		483750	3715450	NonCancer	0.00E+00	0.00E+00	0.00E+00
20	ALL		483850	3715450	NonCancer	0.00E+00	0.00E+00	0.00E+00
21	ALL		483950	3715450	NonCancer	0.00E+00	0.00E+00	0.00E+00
22	ALL		484050	3715450	NonCancer	0.00E+00	0.00E+00	0.00E+00
23	ALL		484150	3715450	NonCancer	0.00E+00	0.00E+00	0.00E+00
24	ALL		484250	3715450	NonCancer	0.00E+00	0.00E+00	0.00E+00
25	ALL		484350	3715450	NonCancer	0.00E+00	0.00E+00	0.00E+00
26	ALL		484450	3715450	NonCancer	0.00E+00	0.00E+00	0.00E+00
27	ALL		481950	3715550	NonCancer	0.00E+00	0.00E+00	0.00E+00
28	ALL		482050	3715550	NonCancer	0.00E+00	0.00E+00	0.00E+00
29	ALL		482150	3715550	NonCancer	0.00E+00	0.00E+00	0.00E+00
30	ALL		482250	3715550	NonCancer	0.00E+00	0.00E+00	0.00E+00
31	ALL		482350	3715550	NonCancer	0.00E+00	0.00E+00	0.00E+00
32	ALL		482550	3715550	NonCancer	0.00E+00	0.00E+00	0.00E+00
33	ALL		482650	3715550	NonCancer	0.00E+00	0.00E+00	0.00E+00
34	ALL		482750	3715550	NonCancer	0.00E+00	0.00E+00	0.00E+00
35	ALL		482850	3715550	NonCancer	0.00E+00	0.00E+00	0.00E+00
36	ALL		482950	3715550	NonCancer	0.00E+00	0.00E+00	0.00E+00
37	ALL		483050	3715550	NonCancer	0.00E+00	0.00E+00	0.00E+00
38	ALL		483150	3715550	NonCancer	0.00E+00	0.00E+00	0.00E+00
39	ALL		483250	3715550	NonCancer	0.00E+00	0.00E+00	0.00E+00
40	ALL		483350	3715550	NonCancer	0.00E+00	0.00E+00	0.00E+00
41	ALL		483450	3715550	NonCancer	0.00E+00	0.00E+00	0.00E+00
42	ALL		483550	3715550	NonCancer	0.00E+00	0.00E+00	0.00E+00

43	ALL	483650	3715550	NonCancer	0.00E+00	0.00E+00	0.00E+00
44	ALL	483750	3715550	NonCancer	0.00E+00	0.00E+00	0.00E+00
45	ALL	483850	3715550	NonCancer	0.00E+00	0.00E+00	0.00E+00
46	ALL	483950	3715550	NonCancer	0.00E+00	0.00E+00	0.00E+00
47	ALL	484050	3715550	NonCancer	0.00E+00	0.00E+00	0.00E+00
48	ALL	484250	3715550	NonCancer	0.00E+00	0.00E+00	0.00E+00
49	ALL	484350	3715550	NonCancer	0.00E+00	0.00E+00	0.00E+00
50	ALL	484450	3715550	NonCancer	0.00E+00	0.00E+00	0.00E+00
51	ALL	484550	3715550	NonCancer	0.00E+00	0.00E+00	0.00E+00
52	ALL	484950	3715550	NonCancer	0.00E+00	0.00E+00	0.00E+00
53	ALL	485050	3715550	NonCancer	0.00E+00	0.00E+00	0.00E+00
54	ALL	481950	3715650	NonCancer	0.00E+00	0.00E+00	0.00E+00
55	ALL	482050	3715650	NonCancer	0.00E+00	0.00E+00	0.00E+00
56	ALL	482150	3715650	NonCancer	0.00E+00	0.00E+00	0.00E+00
57	ALL	482250	3715650	NonCancer	0.00E+00	0.00E+00	0.00E+00
58	ALL	482350	3715650	NonCancer	0.00E+00	0.00E+00	0.00E+00
59	ALL	482450	3715650	NonCancer	0.00E+00	0.00E+00	0.00E+00
60	ALL	482650	3715650	NonCancer	0.00E+00	0.00E+00	0.00E+00
61	ALL	482750	3715650	NonCancer	0.00E+00	0.00E+00	0.00E+00
62	ALL	482850	3715650	NonCancer	0.00E+00	0.00E+00	0.00E+00
63	ALL	482950	3715650	NonCancer	0.00E+00	0.00E+00	0.00E+00
64	ALL	483050	3715650	NonCancer	0.00E+00	0.00E+00	0.00E+00
65	ALL	483150	3715650	NonCancer	0.00E+00	0.00E+00	0.00E+00
66	ALL	483250	3715650	NonCancer	0.00E+00	0.00E+00	0.00E+00
67	ALL	483350	3715650	NonCancer	0.00E+00	0.00E+00	0.00E+00
68	ALL	483450	3715650	NonCancer	0.00E+00	0.00E+00	0.00E+00
69	ALL	483550	3715650	NonCancer	0.00E+00	0.00E+00	0.00E+00
70	ALL	483650	3715650	NonCancer	0.00E+00	0.00E+00	0.00E+00
71	ALL	483750	3715650	NonCancer	0.00E+00	0.00E+00	0.00E+00
72	ALL	483850	3715650	NonCancer	0.00E+00	0.00E+00	0.00E+00
73	ALL	483950	3715650	NonCancer	0.00E+00	0.00E+00	0.00E+00
74	ALL	484050	3715650	NonCancer	0.00E+00	0.00E+00	0.00E+00
75	ALL	484150	3715650	NonCancer	0.00E+00	0.00E+00	0.00E+00
76	ALL	484350	3715650	NonCancer	0.00E+00	0.00E+00	0.00E+00
77	ALL	484450	3715650	NonCancer	0.00E+00	0.00E+00	0.00E+00
78	ALL	484550	3715650	NonCancer	0.00E+00	0.00E+00	0.00E+00
79	ALL	484650	3715650	NonCancer	0.00E+00	0.00E+00	0.00E+00
80	ALL	484750	3715650	NonCancer	0.00E+00	0.00E+00	0.00E+00
81	ALL	484950	3715650	NonCancer	0.00E+00	0.00E+00	0.00E+00
82	ALL	485050	3715650	NonCancer	0.00E+00	0.00E+00	0.00E+00
83	ALL	481950	3715750	NonCancer	0.00E+00	0.00E+00	0.00E+00
84	ALL	482050	3715750	NonCancer	0.00E+00	0.00E+00	0.00E+00
85	ALL	482150	3715750	NonCancer	0.00E+00	0.00E+00	0.00E+00
86	ALL	482250	3715750	NonCancer	0.00E+00	0.00E+00	0.00E+00

87	ALL	482350	3715750	NonCancer	0.00E+00	0.00E+00	0.00E+00
88	ALL	482450	3715750	NonCancer	0.00E+00	0.00E+00	0.00E+00
89	ALL	482550	3715750	NonCancer	0.00E+00	0.00E+00	0.00E+00
90	ALL	482750	3715750	NonCancer	0.00E+00	0.00E+00	0.00E+00
91	ALL	482850	3715750	NonCancer	0.00E+00	0.00E+00	0.00E+00
92	ALL	482950	3715750	NonCancer	0.00E+00	0.00E+00	0.00E+00
93	ALL	483050	3715750	NonCancer	0.00E+00	0.00E+00	0.00E+00
94	ALL	483150	3715750	NonCancer	0.00E+00	0.00E+00	0.00E+00
95	ALL	483250	3715750	NonCancer	0.00E+00	0.00E+00	0.00E+00
96	ALL	483350	3715750	NonCancer	0.00E+00	0.00E+00	0.00E+00
97	ALL	483450	3715750	NonCancer	0.00E+00	0.00E+00	0.00E+00
98	ALL	483550	3715750	NonCancer	0.00E+00	0.00E+00	0.00E+00
99	ALL	483650	3715750	NonCancer	0.00E+00	0.00E+00	0.00E+00
100	ALL	483750	3715750	NonCancer	0.00E+00	0.00E+00	0.00E+00
101	ALL	483850	3715750	NonCancer	0.00E+00	0.00E+00	0.00E+00
102	ALL	483950	3715750	NonCancer	0.00E+00	0.00E+00	0.00E+00
103	ALL	484050	3715750	NonCancer	0.00E+00	0.00E+00	0.00E+00
104	ALL	484150	3715750	NonCancer	0.00E+00	0.00E+00	0.00E+00
105	ALL	484250	3715750	NonCancer	0.00E+00	0.00E+00	0.00E+00
106	ALL	484550	3715750	NonCancer	0.00E+00	0.00E+00	0.00E+00
107	ALL	484650	3715750	NonCancer	0.00E+00	0.00E+00	0.00E+00
108	ALL	484750	3715750	NonCancer	0.00E+00	0.00E+00	0.00E+00
109	ALL	484850	3715750	NonCancer	0.00E+00	0.00E+00	0.00E+00
110	ALL	484950	3715750	NonCancer	0.00E+00	0.00E+00	0.00E+00
111	ALL	485050	3715750	NonCancer	0.00E+00	0.00E+00	0.00E+00
112	ALL	481950	3715850	NonCancer	0.00E+00	0.00E+00	0.00E+00
113	ALL	482050	3715850	NonCancer	0.00E+00	0.00E+00	0.00E+00
114	ALL	482150	3715850	NonCancer	0.00E+00	0.00E+00	0.00E+00
115	ALL	482250	3715850	NonCancer	0.00E+00	0.00E+00	0.00E+00
116	ALL	482350	3715850	NonCancer	0.00E+00	0.00E+00	0.00E+00
117	ALL	482450	3715850	NonCancer	0.00E+00	0.00E+00	0.00E+00
118	ALL	482550	3715850	NonCancer	0.00E+00	0.00E+00	0.00E+00
119	ALL	482650	3715850	NonCancer	0.00E+00	0.00E+00	0.00E+00
120	ALL	482750	3715850	NonCancer	0.00E+00	0.00E+00	0.00E+00
121	ALL	482850	3715850	NonCancer	0.00E+00	0.00E+00	0.00E+00
122	ALL	482950	3715850	NonCancer	0.00E+00	0.00E+00	0.00E+00
123	ALL	483050	3715850	NonCancer	0.00E+00	0.00E+00	0.00E+00
124	ALL	483150	3715850	NonCancer	0.00E+00	0.00E+00	0.00E+00
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126	ALL	483450	3715850	NonCancer	0.00E+00	0.00E+00	0.00E+00
127	ALL	483550	3715850	NonCancer	0.00E+00	0.00E+00	0.00E+00
128	ALL	483650	3715850	NonCancer	0.00E+00	0.00E+00	0.00E+00
129	ALL	483750	3715850	NonCancer	0.00E+00	0.00E+00	0.00E+00
130	ALL	483850	3715850	NonCancer	0.00E+00	0.00E+00	0.00E+00

131	ALL	483950	3715850	NonCancer	0.00E+00	0.00E+00	0.00E+00
132	ALL	484050	3715850	NonCancer	0.00E+00	0.00E+00	0.00E+00
133	ALL	484150	3715850	NonCancer	0.00E+00	0.00E+00	0.00E+00
134	ALL	484250	3715850	NonCancer	0.00E+00	0.00E+00	0.00E+00
135	ALL	484550	3715850	NonCancer	0.00E+00	0.00E+00	0.00E+00
136	ALL	484650	3715850	NonCancer	0.00E+00	0.00E+00	0.00E+00
137	ALL	484750	3715850	NonCancer	0.00E+00	0.00E+00	0.00E+00
138	ALL	484850	3715850	NonCancer	0.00E+00	0.00E+00	0.00E+00
139	ALL	485150	3715850	NonCancer	0.00E+00	0.00E+00	0.00E+00
140	ALL	485250	3715850	NonCancer	0.00E+00	0.00E+00	0.00E+00
141	ALL	481950	3715950	NonCancer	0.00E+00	0.00E+00	0.00E+00
142	ALL	482050	3715950	NonCancer	0.00E+00	0.00E+00	0.00E+00
143	ALL	482150	3715950	NonCancer	0.00E+00	0.00E+00	0.00E+00
144	ALL	482250	3715950	NonCancer	0.00E+00	0.00E+00	0.00E+00
145	ALL	482350	3715950	NonCancer	0.00E+00	0.00E+00	0.00E+00
146	ALL	482450	3715950	NonCancer	0.00E+00	0.00E+00	0.00E+00
147	ALL	482550	3715950	NonCancer	0.00E+00	0.00E+00	0.00E+00
148	ALL	482650	3715950	NonCancer	0.00E+00	0.00E+00	0.00E+00
149	ALL	482750	3715950	NonCancer	0.00E+00	0.00E+00	0.00E+00
150	ALL	482850	3715950	NonCancer	0.00E+00	0.00E+00	0.00E+00
151	ALL	482950	3715950	NonCancer	0.00E+00	0.00E+00	0.00E+00
152	ALL	483050	3715950	NonCancer	0.00E+00	0.00E+00	0.00E+00
153	ALL	483350	3715950	NonCancer	0.00E+00	0.00E+00	0.00E+00
154	ALL	483450	3715950	NonCancer	0.00E+00	0.00E+00	0.00E+00
155	ALL	483550	3715950	NonCancer	0.00E+00	0.00E+00	0.00E+00
156	ALL	483650	3715950	NonCancer	0.00E+00	0.00E+00	0.00E+00
157	ALL	483750	3715950	NonCancer	0.00E+00	0.00E+00	0.00E+00
158	ALL	483850	3715950	NonCancer	0.00E+00	0.00E+00	0.00E+00
159	ALL	483950	3715950	NonCancer	0.00E+00	0.00E+00	0.00E+00
160	ALL	484050	3715950	NonCancer	0.00E+00	0.00E+00	0.00E+00
161	ALL	484150	3715950	NonCancer	0.00E+00	0.00E+00	0.00E+00
162	ALL	484250	3715950	NonCancer	0.00E+00	0.00E+00	0.00E+00
163	ALL	484850	3715950	NonCancer	0.00E+00	0.00E+00	0.00E+00
164	ALL	485150	3715950	NonCancer	0.00E+00	0.00E+00	0.00E+00
165	ALL	485250	3715950	NonCancer	0.00E+00	0.00E+00	0.00E+00
166	ALL	481950	3716050	NonCancer	0.00E+00	0.00E+00	0.00E+00
167	ALL	482050	3716050	NonCancer	0.00E+00	0.00E+00	0.00E+00
168	ALL	482150	3716050	NonCancer	0.00E+00	0.00E+00	0.00E+00
169	ALL	482250	3716050	NonCancer	0.00E+00	0.00E+00	0.00E+00
170	ALL	482350	3716050	NonCancer	0.00E+00	0.00E+00	0.00E+00
171	ALL	482450	3716050	NonCancer	0.00E+00	0.00E+00	0.00E+00
172	ALL	482550	3716050	NonCancer	0.00E+00	0.00E+00	0.00E+00
173	ALL	482650	3716050	NonCancer	0.00E+00	0.00E+00	0.00E+00
174	ALL	482750	3716050	NonCancer	0.00E+00	0.00E+00	0.00E+00

175	ALL	482850	3716050	NonCancer	0.00E+00	0.00E+00	0.00E+00
176	ALL	482950	3716050	NonCancer	0.00E+00	0.00E+00	0.00E+00
177	ALL	483050	3716050	NonCancer	0.00E+00	0.00E+00	0.00E+00
178	ALL	483150	3716050	NonCancer	0.00E+00	0.00E+00	0.00E+00
179	ALL	483350	3716050	NonCancer	0.00E+00	0.00E+00	0.00E+00
180	ALL	483450	3716050	NonCancer	0.00E+00	0.00E+00	0.00E+00
181	ALL	483550	3716050	NonCancer	0.00E+00	0.00E+00	0.00E+00
182	ALL	483650	3716050	NonCancer	0.00E+00	0.00E+00	0.00E+00
183	ALL	483750	3716050	NonCancer	0.00E+00	0.00E+00	0.00E+00
184	ALL	483850	3716050	NonCancer	0.00E+00	0.00E+00	0.00E+00
185	ALL	483950	3716050	NonCancer	0.00E+00	0.00E+00	0.00E+00
186	ALL	484050	3716050	NonCancer	0.00E+00	0.00E+00	0.00E+00
187	ALL	484150	3716050	NonCancer	0.00E+00	0.00E+00	0.00E+00
188	ALL	484250	3716050	NonCancer	0.00E+00	0.00E+00	0.00E+00
189	ALL	484450	3716050	NonCancer	0.00E+00	0.00E+00	0.00E+00
190	ALL	484750	3716050	NonCancer	0.00E+00	0.00E+00	0.00E+00
191	ALL	484850	3716050	NonCancer	0.00E+00	0.00E+00	0.00E+00
192	ALL	485050	3716050	NonCancer	0.00E+00	0.00E+00	0.00E+00
193	ALL	485150	3716050	NonCancer	0.00E+00	0.00E+00	0.00E+00
194	ALL	485250	3716050	NonCancer	0.00E+00	0.00E+00	0.00E+00
195	ALL	485350	3716050	NonCancer	0.00E+00	0.00E+00	0.00E+00
196	ALL	485450	3716050	NonCancer	0.00E+00	0.00E+00	0.00E+00
197	ALL	481950	3716150	NonCancer	0.00E+00	0.00E+00	0.00E+00
198	ALL	482050	3716150	NonCancer	0.00E+00	0.00E+00	0.00E+00
199	ALL	482150	3716150	NonCancer	0.00E+00	0.00E+00	0.00E+00
200	ALL	482250	3716150	NonCancer	0.00E+00	0.00E+00	0.00E+00
201	ALL	482350	3716150	NonCancer	0.00E+00	0.00E+00	0.00E+00
202	ALL	482450	3716150	NonCancer	0.00E+00	0.00E+00	0.00E+00
203	ALL	482550	3716150	NonCancer	0.00E+00	0.00E+00	0.00E+00
204	ALL	482650	3716150	NonCancer	0.00E+00	0.00E+00	0.00E+00
205	ALL	482750	3716150	NonCancer	0.00E+00	0.00E+00	0.00E+00
206	ALL	482850	3716150	NonCancer	0.00E+00	0.00E+00	0.00E+00
207	ALL	482950	3716150	NonCancer	0.00E+00	0.00E+00	0.00E+00
208	ALL	483050	3716150	NonCancer	0.00E+00	0.00E+00	0.00E+00
209	ALL	483150	3716150	NonCancer	0.00E+00	0.00E+00	0.00E+00
210	ALL	483450	3716150	NonCancer	0.00E+00	0.00E+00	0.00E+00
211	ALL	483550	3716150	NonCancer	0.00E+00	0.00E+00	0.00E+00
212	ALL	483650	3716150	NonCancer	0.00E+00	0.00E+00	0.00E+00
213	ALL	483750	3716150	NonCancer	0.00E+00	0.00E+00	0.00E+00
214	ALL	483850	3716150	NonCancer	0.00E+00	0.00E+00	0.00E+00
215	ALL	483950	3716150	NonCancer	0.00E+00	0.00E+00	0.00E+00
216	ALL	484150	3716150	NonCancer	0.00E+00	0.00E+00	0.00E+00
217	ALL	484250	3716150	NonCancer	0.00E+00	0.00E+00	0.00E+00
218	ALL	484350	3716150	NonCancer	0.00E+00	0.00E+00	0.00E+00

219	ALL	484450	3716150	NonCancer	0.00E+00	0.00E+00	0.00E+00
220	ALL	484850	3716150	NonCancer	0.00E+00	0.00E+00	0.00E+00
221	ALL	484950	3716150	NonCancer	0.00E+00	0.00E+00	0.00E+00
222	ALL	485150	3716150	NonCancer	0.00E+00	0.00E+00	0.00E+00
223	ALL	485250	3716150	NonCancer	0.00E+00	0.00E+00	0.00E+00
224	ALL	485350	3716150	NonCancer	0.00E+00	0.00E+00	0.00E+00
225	ALL	485450	3716150	NonCancer	0.00E+00	0.00E+00	0.00E+00
226	ALL	481950	3716250	NonCancer	0.00E+00	0.00E+00	0.00E+00
227	ALL	482050	3716250	NonCancer	0.00E+00	0.00E+00	0.00E+00
228	ALL	482150	3716250	NonCancer	0.00E+00	0.00E+00	0.00E+00
229	ALL	482250	3716250	NonCancer	0.00E+00	0.00E+00	0.00E+00
230	ALL	482350	3716250	NonCancer	0.00E+00	0.00E+00	0.00E+00
231	ALL	482450	3716250	NonCancer	0.00E+00	0.00E+00	0.00E+00
232	ALL	482550	3716250	NonCancer	0.00E+00	0.00E+00	0.00E+00
233	ALL	482650	3716250	NonCancer	0.00E+00	0.00E+00	0.00E+00
234	ALL	482750	3716250	NonCancer	0.00E+00	0.00E+00	0.00E+00
235	ALL	482850	3716250	NonCancer	0.00E+00	0.00E+00	0.00E+00
236	ALL	482950	3716250	NonCancer	0.00E+00	0.00E+00	0.00E+00
237	ALL	483050	3716250	NonCancer	0.00E+00	0.00E+00	0.00E+00
238	ALL	483150	3716250	NonCancer	0.00E+00	0.00E+00	0.00E+00
239	ALL	483450	3716250	NonCancer	0.00E+00	0.00E+00	0.00E+00
240	ALL	483550	3716250	NonCancer	0.00E+00	0.00E+00	0.00E+00
241	ALL	483650	3716250	NonCancer	0.00E+00	0.00E+00	0.00E+00
242	ALL	483750	3716250	NonCancer	0.00E+00	0.00E+00	0.00E+00
243	ALL	483850	3716250	NonCancer	0.00E+00	0.00E+00	0.00E+00
244	ALL	483950	3716250	NonCancer	0.00E+00	0.00E+00	0.00E+00
245	ALL	484150	3716250	NonCancer	0.00E+00	0.00E+00	0.00E+00
246	ALL	484850	3716250	NonCancer	0.00E+00	0.00E+00	0.00E+00
247	ALL	484950	3716250	NonCancer	0.00E+00	0.00E+00	0.00E+00
248	ALL	485050	3716250	NonCancer	0.00E+00	0.00E+00	0.00E+00
249	ALL	485150	3716250	NonCancer	0.00E+00	0.00E+00	0.00E+00
250	ALL	485250	3716250	NonCancer	0.00E+00	0.00E+00	0.00E+00
251	ALL	485350	3716250	NonCancer	0.00E+00	0.00E+00	0.00E+00
252	ALL	481950	3716350	NonCancer	0.00E+00	0.00E+00	0.00E+00
253	ALL	482050	3716350	NonCancer	0.00E+00	0.00E+00	0.00E+00
254	ALL	482150	3716350	NonCancer	0.00E+00	0.00E+00	0.00E+00
255	ALL	482250	3716350	NonCancer	0.00E+00	0.00E+00	0.00E+00
256	ALL	482350	3716350	NonCancer	0.00E+00	0.00E+00	0.00E+00
257	ALL	482450	3716350	NonCancer	0.00E+00	0.00E+00	0.00E+00
258	ALL	482550	3716350	NonCancer	0.00E+00	0.00E+00	0.00E+00
259	ALL	482650	3716350	NonCancer	0.00E+00	0.00E+00	0.00E+00
260	ALL	482750	3716350	NonCancer	0.00E+00	0.00E+00	0.00E+00
261	ALL	482850	3716350	NonCancer	0.00E+00	0.00E+00	0.00E+00
262	ALL	482950	3716350	NonCancer	0.00E+00	0.00E+00	0.00E+00

263	ALL	483050	3716350	NonCancer	0.00E+00	0.00E+00	0.00E+00
264	ALL	483150	3716350	NonCancer	0.00E+00	0.00E+00	0.00E+00
265	ALL	483450	3716350	NonCancer	0.00E+00	0.00E+00	0.00E+00
266	ALL	483550	3716350	NonCancer	0.00E+00	0.00E+00	0.00E+00
267	ALL	483650	3716350	NonCancer	0.00E+00	0.00E+00	0.00E+00
268	ALL	483750	3716350	NonCancer	0.00E+00	0.00E+00	0.00E+00
269	ALL	483850	3716350	NonCancer	0.00E+00	0.00E+00	0.00E+00
270	ALL	483950	3716350	NonCancer	0.00E+00	0.00E+00	0.00E+00
271	ALL	484850	3716350	NonCancer	0.00E+00	0.00E+00	0.00E+00
272	ALL	484950	3716350	NonCancer	0.00E+00	0.00E+00	0.00E+00
273	ALL	481950	3716450	NonCancer	0.00E+00	0.00E+00	0.00E+00
274	ALL	482550	3716450	NonCancer	0.00E+00	0.00E+00	0.00E+00
275	ALL	482650	3716450	NonCancer	0.00E+00	0.00E+00	0.00E+00
276	ALL	482750	3716450	NonCancer	0.00E+00	0.00E+00	0.00E+00
277	ALL	482850	3716450	NonCancer	0.00E+00	0.00E+00	0.00E+00
278	ALL	482950	3716450	NonCancer	0.00E+00	0.00E+00	0.00E+00
279	ALL	483050	3716450	NonCancer	0.00E+00	0.00E+00	0.00E+00
280	ALL	483150	3716450	NonCancer	0.00E+00	0.00E+00	0.00E+00
281	ALL	483450	3716450	NonCancer	0.00E+00	0.00E+00	0.00E+00
282	ALL	483550	3716450	NonCancer	0.00E+00	0.00E+00	0.00E+00
283	ALL	483650	3716450	NonCancer	0.00E+00	0.00E+00	0.00E+00
284	ALL	483750	3716450	NonCancer	0.00E+00	0.00E+00	0.00E+00
285	ALL	483850	3716450	NonCancer	0.00E+00	0.00E+00	0.00E+00
286	ALL	483950	3716450	NonCancer	0.00E+00	0.00E+00	0.00E+00
287	ALL	484050	3716450	NonCancer	0.00E+00	0.00E+00	0.00E+00
288	ALL	485150	3716450	NonCancer	0.00E+00	0.00E+00	0.00E+00
289	ALL	482650	3716550	NonCancer	0.00E+00	0.00E+00	0.00E+00
290	ALL	482750	3716550	NonCancer	0.00E+00	0.00E+00	0.00E+00
291	ALL	482850	3716550	NonCancer	0.00E+00	0.00E+00	0.00E+00
292	ALL	482950	3716550	NonCancer	0.00E+00	0.00E+00	0.00E+00
293	ALL	483450	3716550	NonCancer	0.00E+00	0.00E+00	0.00E+00
294	ALL	483550	3716550	NonCancer	0.00E+00	0.00E+00	0.00E+00
295	ALL	483650	3716550	NonCancer	0.00E+00	0.00E+00	0.00E+00
296	ALL	483750	3716550	NonCancer	0.00E+00	0.00E+00	0.00E+00
297	ALL	483850	3716550	NonCancer	0.00E+00	0.00E+00	0.00E+00
298	ALL	483950	3716550	NonCancer	0.00E+00	0.00E+00	0.00E+00
299	ALL	484050	3716550	NonCancer	0.00E+00	0.00E+00	0.00E+00
300	ALL	484950	3716550	NonCancer	0.00E+00	0.00E+00	0.00E+00
301	ALL	485050	3716550	NonCancer	0.00E+00	0.00E+00	0.00E+00
302	ALL	485150	3716550	NonCancer	0.00E+00	0.00E+00	0.00E+00
303	ALL	482850	3716650	NonCancer	0.00E+00	0.00E+00	0.00E+00
304	ALL	482950	3716650	NonCancer	0.00E+00	0.00E+00	0.00E+00
305	ALL	483450	3716650	NonCancer	0.00E+00	0.00E+00	0.00E+00
306	ALL	483550	3716650	NonCancer	0.00E+00	0.00E+00	0.00E+00

307	ALL	483650	3716650	NonCancer	0.00E+00	0.00E+00	0.00E+00
308	ALL	483750	3716650	NonCancer	0.00E+00	0.00E+00	0.00E+00
309	ALL	483850	3716650	NonCancer	0.00E+00	0.00E+00	0.00E+00
310	ALL	483950	3716650	NonCancer	0.00E+00	0.00E+00	0.00E+00
311	ALL	484050	3716650	NonCancer	0.00E+00	0.00E+00	0.00E+00
312	ALL	485250	3716650	NonCancer	0.00E+00	0.00E+00	0.00E+00
313	ALL	481950	3716750	NonCancer	0.00E+00	0.00E+00	0.00E+00
314	ALL	482650	3716750	NonCancer	0.00E+00	0.00E+00	0.00E+00
315	ALL	482750	3716750	NonCancer	0.00E+00	0.00E+00	0.00E+00
316	ALL	482850	3716750	NonCancer	0.00E+00	0.00E+00	0.00E+00
317	ALL	482950	3716750	NonCancer	0.00E+00	0.00E+00	0.00E+00
318	ALL	483050	3716750	NonCancer	0.00E+00	0.00E+00	0.00E+00
319	ALL	483150	3716750	NonCancer	0.00E+00	0.00E+00	0.00E+00
320	ALL	483450	3716750	NonCancer	0.00E+00	0.00E+00	0.00E+00
321	ALL	483550	3716750	NonCancer	0.00E+00	0.00E+00	0.00E+00
322	ALL	483650	3716750	NonCancer	0.00E+00	0.00E+00	0.00E+00
323	ALL	483750	3716750	NonCancer	0.00E+00	0.00E+00	0.00E+00
324	ALL	483850	3716750	NonCancer	0.00E+00	0.00E+00	0.00E+00
325	ALL	483950	3716750	NonCancer	0.00E+00	0.00E+00	0.00E+00
326	ALL	484050	3716750	NonCancer	0.00E+00	0.00E+00	0.00E+00
327	ALL	485150	3716750	NonCancer	0.00E+00	0.00E+00	0.00E+00
328	ALL	485250	3716750	NonCancer	0.00E+00	0.00E+00	0.00E+00
329	ALL	485350	3716750	NonCancer	0.00E+00	0.00E+00	0.00E+00
330	ALL	485450	3716750	NonCancer	0.00E+00	0.00E+00	0.00E+00
331	ALL	485550	3716750	NonCancer	0.00E+00	0.00E+00	0.00E+00
332	ALL	485650	3716750	NonCancer	0.00E+00	0.00E+00	0.00E+00
333	ALL	481950	3716850	NonCancer	0.00E+00	0.00E+00	0.00E+00
334	ALL	482050	3716850	NonCancer	0.00E+00	0.00E+00	0.00E+00
335	ALL	482150	3716850	NonCancer	0.00E+00	0.00E+00	0.00E+00
336	ALL	482650	3716850	NonCancer	0.00E+00	0.00E+00	0.00E+00
337	ALL	482750	3716850	NonCancer	0.00E+00	0.00E+00	0.00E+00
338	ALL	482850	3716850	NonCancer	0.00E+00	0.00E+00	0.00E+00
339	ALL	482950	3716850	NonCancer	0.00E+00	0.00E+00	0.00E+00
340	ALL	483050	3716850	NonCancer	0.00E+00	0.00E+00	0.00E+00
341	ALL	483150	3716850	NonCancer	0.00E+00	0.00E+00	0.00E+00
342	ALL	483250	3716850	NonCancer	0.00E+00	0.00E+00	0.00E+00
343	ALL	484050	3716850	NonCancer	0.00E+00	0.00E+00	0.00E+00
344	ALL	485550	3716850	NonCancer	0.00E+00	0.00E+00	0.00E+00
345	ALL	485650	3716850	NonCancer	0.00E+00	0.00E+00	0.00E+00
346	ALL	481950	3716950	NonCancer	0.00E+00	0.00E+00	0.00E+00
347	ALL	482050	3716950	NonCancer	0.00E+00	0.00E+00	0.00E+00
348	ALL	482150	3716950	NonCancer	0.00E+00	0.00E+00	0.00E+00
349	ALL	482250	3716950	NonCancer	0.00E+00	0.00E+00	0.00E+00
350	ALL	482350	3716950	NonCancer	0.00E+00	0.00E+00	0.00E+00

351	ALL	482450	3716950	NonCancer	0.00E+00	0.00E+00	0.00E+00
352	ALL	483150	3716950	NonCancer	0.00E+00	0.00E+00	0.00E+00
353	ALL	483250	3716950	NonCancer	0.00E+00	0.00E+00	0.00E+00
354	ALL	485550	3716950	NonCancer	0.00E+00	0.00E+00	0.00E+00
355	ALL	485650	3716950	NonCancer	0.00E+00	0.00E+00	0.00E+00
356	ALL	481950	3717050	NonCancer	0.00E+00	0.00E+00	0.00E+00
357	ALL	482050	3717050	NonCancer	0.00E+00	0.00E+00	0.00E+00
358	ALL	482150	3717050	NonCancer	0.00E+00	0.00E+00	0.00E+00
359	ALL	482250	3717050	NonCancer	0.00E+00	0.00E+00	0.00E+00
360	ALL	482350	3717050	NonCancer	0.00E+00	0.00E+00	0.00E+00
361	ALL	482450	3717050	NonCancer	0.00E+00	0.00E+00	0.00E+00
362	ALL	482550	3717050	NonCancer	0.00E+00	0.00E+00	0.00E+00
363	ALL	482650	3717050	NonCancer	0.00E+00	0.00E+00	0.00E+00
364	ALL	482850	3717050	NonCancer	0.00E+00	0.00E+00	0.00E+00
365	ALL	482950	3717050	NonCancer	0.00E+00	0.00E+00	0.00E+00
366	ALL	483250	3717050	NonCancer	0.00E+00	0.00E+00	0.00E+00
367	ALL	485350	3717050	NonCancer	0.00E+00	0.00E+00	0.00E+00
368	ALL	485450	3717050	NonCancer	0.00E+00	0.00E+00	0.00E+00
369	ALL	485550	3717050	NonCancer	0.00E+00	0.00E+00	0.00E+00
370	ALL	485650	3717050	NonCancer	0.00E+00	0.00E+00	0.00E+00
371	ALL	486250	3717050	NonCancer	0.00E+00	0.00E+00	0.00E+00
372	ALL	481950	3717150	NonCancer	0.00E+00	0.00E+00	0.00E+00
373	ALL	482050	3717150	NonCancer	0.00E+00	0.00E+00	0.00E+00
374	ALL	482150	3717150	NonCancer	0.00E+00	0.00E+00	0.00E+00
375	ALL	482250	3717150	NonCancer	0.00E+00	0.00E+00	0.00E+00
376	ALL	482350	3717150	NonCancer	0.00E+00	0.00E+00	0.00E+00
377	ALL	482450	3717150	NonCancer	0.00E+00	0.00E+00	0.00E+00
378	ALL	482550	3717150	NonCancer	0.00E+00	0.00E+00	0.00E+00
379	ALL	482650	3717150	NonCancer	0.00E+00	0.00E+00	0.00E+00
380	ALL	482750	3717150	NonCancer	0.00E+00	0.00E+00	0.00E+00
381	ALL	482850	3717150	NonCancer	0.00E+00	0.00E+00	0.00E+00
382	ALL	482950	3717150	NonCancer	0.00E+00	0.00E+00	0.00E+00
383	ALL	483050	3717150	NonCancer	0.00E+00	0.00E+00	0.00E+00
384	ALL	485350	3717150	NonCancer	0.00E+00	0.00E+00	0.00E+00
385	ALL	485450	3717150	NonCancer	0.00E+00	0.00E+00	0.00E+00
386	ALL	485550	3717150	NonCancer	0.00E+00	0.00E+00	0.00E+00
387	ALL	485650	3717150	NonCancer	0.00E+00	0.00E+00	0.00E+00
388	ALL	481950	3717250	NonCancer	0.00E+00	0.00E+00	0.00E+00
389	ALL	482050	3717250	NonCancer	0.00E+00	0.00E+00	0.00E+00
390	ALL	482150	3717250	NonCancer	0.00E+00	0.00E+00	0.00E+00
391	ALL	482250	3717250	NonCancer	0.00E+00	0.00E+00	0.00E+00
392	ALL	482350	3717250	NonCancer	0.00E+00	0.00E+00	0.00E+00
393	ALL	482450	3717250	NonCancer	0.00E+00	0.00E+00	0.00E+00
394	ALL	482550	3717250	NonCancer	0.00E+00	0.00E+00	0.00E+00

395	ALL	482650	3717250	NonCancer	0.00E+00	0.00E+00	0.00E+00
396	ALL	482750	3717250	NonCancer	0.00E+00	0.00E+00	0.00E+00
397	ALL	482850	3717250	NonCancer	0.00E+00	0.00E+00	0.00E+00
398	ALL	482950	3717250	NonCancer	0.00E+00	0.00E+00	0.00E+00
399	ALL	483050	3717250	NonCancer	0.00E+00	0.00E+00	0.00E+00
400	ALL	483150	3717250	NonCancer	0.00E+00	0.00E+00	0.00E+00
401	ALL	483250	3717250	NonCancer	0.00E+00	0.00E+00	0.00E+00
402	ALL	483350	3717250	NonCancer	0.00E+00	0.00E+00	0.00E+00
403	ALL	483450	3717250	NonCancer	0.00E+00	0.00E+00	0.00E+00
404	ALL	483850	3717250	NonCancer	0.00E+00	0.00E+00	0.00E+00
405	ALL	483950	3717250	NonCancer	0.00E+00	0.00E+00	0.00E+00
406	ALL	486150	3717250	NonCancer	0.00E+00	0.00E+00	0.00E+00
407	ALL	486250	3717250	NonCancer	0.00E+00	0.00E+00	0.00E+00
408	ALL	481950	3717350	NonCancer	0.00E+00	0.00E+00	0.00E+00
409	ALL	482050	3717350	NonCancer	0.00E+00	0.00E+00	0.00E+00
410	ALL	482150	3717350	NonCancer	0.00E+00	0.00E+00	0.00E+00
411	ALL	482250	3717350	NonCancer	0.00E+00	0.00E+00	0.00E+00
412	ALL	482350	3717350	NonCancer	0.00E+00	0.00E+00	0.00E+00
413	ALL	482450	3717350	NonCancer	0.00E+00	0.00E+00	0.00E+00
414	ALL	482550	3717350	NonCancer	0.00E+00	0.00E+00	0.00E+00
415	ALL	482650	3717350	NonCancer	0.00E+00	0.00E+00	0.00E+00
416	ALL	482750	3717350	NonCancer	0.00E+00	0.00E+00	0.00E+00
417	ALL	482850	3717350	NonCancer	0.00E+00	0.00E+00	0.00E+00
418	ALL	482950	3717350	NonCancer	0.00E+00	0.00E+00	0.00E+00
419	ALL	483050	3717350	NonCancer	0.00E+00	0.00E+00	0.00E+00
420	ALL	483150	3717350	NonCancer	0.00E+00	0.00E+00	0.00E+00
421	ALL	483250	3717350	NonCancer	0.00E+00	0.00E+00	0.00E+00
422	ALL	483350	3717350	NonCancer	0.00E+00	0.00E+00	0.00E+00
423	ALL	483450	3717350	NonCancer	0.00E+00	0.00E+00	0.00E+00
424	ALL	483850	3717350	NonCancer	0.00E+00	0.00E+00	0.00E+00
425	ALL	483950	3717350	NonCancer	0.00E+00	0.00E+00	0.00E+00
426	ALL	484050	3717350	NonCancer	0.00E+00	0.00E+00	0.00E+00
427	ALL	484650	3717350	NonCancer	0.00E+00	0.00E+00	0.00E+00
428	ALL	484750	3717350	NonCancer	0.00E+00	0.00E+00	0.00E+00
429	ALL	486050	3717350	NonCancer	0.00E+00	0.00E+00	0.00E+00
430	ALL	486150	3717350	NonCancer	0.00E+00	0.00E+00	0.00E+00
431	ALL	486250	3717350	NonCancer	0.00E+00	0.00E+00	0.00E+00
432	ALL	481950	3717450	NonCancer	0.00E+00	0.00E+00	0.00E+00
433	ALL	482050	3717450	NonCancer	0.00E+00	0.00E+00	0.00E+00
434	ALL	482150	3717450	NonCancer	0.00E+00	0.00E+00	0.00E+00
435	ALL	482250	3717450	NonCancer	0.00E+00	0.00E+00	0.00E+00
436	ALL	482350	3717450	NonCancer	0.00E+00	0.00E+00	0.00E+00
437	ALL	482450	3717450	NonCancer	0.00E+00	0.00E+00	0.00E+00
438	ALL	482750	3717450	NonCancer	0.00E+00	0.00E+00	0.00E+00

439	ALL	482850	3717450	NonCancer	0.00E+00	0.00E+00	0.00E+00
440	ALL	482950	3717450	NonCancer	0.00E+00	0.00E+00	0.00E+00
441	ALL	483050	3717450	NonCancer	0.00E+00	0.00E+00	0.00E+00
442	ALL	483150	3717450	NonCancer	0.00E+00	0.00E+00	0.00E+00
443	ALL	483250	3717450	NonCancer	0.00E+00	0.00E+00	0.00E+00
444	ALL	483350	3717450	NonCancer	0.00E+00	0.00E+00	0.00E+00
445	ALL	483450	3717450	NonCancer	0.00E+00	0.00E+00	0.00E+00
446	ALL	483550	3717450	NonCancer	0.00E+00	0.00E+00	0.00E+00
447	ALL	483850	3717450	NonCancer	0.00E+00	0.00E+00	0.00E+00
448	ALL	483950	3717450	NonCancer	0.00E+00	0.00E+00	0.00E+00
449	ALL	484050	3717450	NonCancer	0.00E+00	0.00E+00	0.00E+00
450	ALL	484550	3717450	NonCancer	0.00E+00	0.00E+00	0.00E+00
451	ALL	484650	3717450	NonCancer	0.00E+00	0.00E+00	0.00E+00
452	ALL	484750	3717450	NonCancer	0.00E+00	0.00E+00	0.00E+00
453	ALL	481950	3717550	NonCancer	0.00E+00	0.00E+00	0.00E+00
454	ALL	482050	3717550	NonCancer	0.00E+00	0.00E+00	0.00E+00
455	ALL	482150	3717550	NonCancer	0.00E+00	0.00E+00	0.00E+00
456	ALL	482250	3717550	NonCancer	0.00E+00	0.00E+00	0.00E+00
457	ALL	482350	3717550	NonCancer	0.00E+00	0.00E+00	0.00E+00
458	ALL	482450	3717550	NonCancer	0.00E+00	0.00E+00	0.00E+00
459	ALL	482750	3717550	NonCancer	0.00E+00	0.00E+00	0.00E+00
460	ALL	482850	3717550	NonCancer	0.00E+00	0.00E+00	0.00E+00
461	ALL	482950	3717550	NonCancer	0.00E+00	0.00E+00	0.00E+00
462	ALL	483050	3717550	NonCancer	0.00E+00	0.00E+00	0.00E+00
463	ALL	483250	3717550	NonCancer	0.00E+00	0.00E+00	0.00E+00
464	ALL	483350	3717550	NonCancer	0.00E+00	0.00E+00	0.00E+00
465	ALL	483450	3717550	NonCancer	0.00E+00	0.00E+00	0.00E+00
466	ALL	483550	3717550	NonCancer	0.00E+00	0.00E+00	0.00E+00
467	ALL	483950	3717550	NonCancer	0.00E+00	0.00E+00	0.00E+00
468	ALL	484050	3717550	NonCancer	0.00E+00	0.00E+00	0.00E+00
469	ALL	485850	3717550	NonCancer	0.00E+00	0.00E+00	0.00E+00
470	ALL	485950	3717550	NonCancer	0.00E+00	0.00E+00	0.00E+00
471	ALL	481950	3717650	NonCancer	0.00E+00	0.00E+00	0.00E+00
472	ALL	482050	3717650	NonCancer	0.00E+00	0.00E+00	0.00E+00
473	ALL	482150	3717650	NonCancer	0.00E+00	0.00E+00	0.00E+00
474	ALL	482250	3717650	NonCancer	0.00E+00	0.00E+00	0.00E+00
475	ALL	482350	3717650	NonCancer	0.00E+00	0.00E+00	0.00E+00
476	ALL	482450	3717650	NonCancer	0.00E+00	0.00E+00	0.00E+00
477	ALL	482550	3717650	NonCancer	0.00E+00	0.00E+00	0.00E+00
478	ALL	482650	3717650	NonCancer	0.00E+00	0.00E+00	0.00E+00
479	ALL	482750	3717650	NonCancer	0.00E+00	0.00E+00	0.00E+00
480	ALL	482850	3717650	NonCancer	0.00E+00	0.00E+00	0.00E+00
481	ALL	482950	3717650	NonCancer	0.00E+00	0.00E+00	0.00E+00
482	ALL	483350	3717650	NonCancer	0.00E+00	0.00E+00	0.00E+00

483	ALL	484550	3717650	NonCancer	0.00E+00	0.00E+00	0.00E+00
484	ALL	484650	3717650	NonCancer	0.00E+00	0.00E+00	0.00E+00
485	ALL	484750	3717650	NonCancer	0.00E+00	0.00E+00	0.00E+00
486	ALL	484850	3717650	NonCancer	0.00E+00	0.00E+00	0.00E+00
487	ALL	485150	3717650	NonCancer	0.00E+00	0.00E+00	0.00E+00
488	ALL	485450	3717650	NonCancer	0.00E+00	0.00E+00	0.00E+00
489	ALL	485550	3717650	NonCancer	0.00E+00	0.00E+00	0.00E+00
490	ALL	482250	3717750	NonCancer	0.00E+00	0.00E+00	0.00E+00
491	ALL	482350	3717750	NonCancer	0.00E+00	0.00E+00	0.00E+00
492	ALL	482450	3717750	NonCancer	0.00E+00	0.00E+00	0.00E+00
493	ALL	482550	3717750	NonCancer	0.00E+00	0.00E+00	0.00E+00
494	ALL	482650	3717750	NonCancer	0.00E+00	0.00E+00	0.00E+00
495	ALL	482750	3717750	NonCancer	0.00E+00	0.00E+00	0.00E+00
496	ALL	482850	3717750	NonCancer	0.00E+00	0.00E+00	0.00E+00
497	ALL	482950	3717750	NonCancer	0.00E+00	0.00E+00	0.00E+00
498	ALL	484550	3717750	NonCancer	0.00E+00	0.00E+00	0.00E+00
499	ALL	484650	3717750	NonCancer	0.00E+00	0.00E+00	0.00E+00
500	ALL	484750	3717750	NonCancer	0.00E+00	0.00E+00	0.00E+00
501	ALL	484850	3717750	NonCancer	0.00E+00	0.00E+00	0.00E+00
502	ALL	485150	3717750	NonCancer	0.00E+00	0.00E+00	0.00E+00
503	ALL	485450	3717750	NonCancer	0.00E+00	0.00E+00	0.00E+00
504	ALL	485550	3717750	NonCancer	0.00E+00	0.00E+00	0.00E+00
505	ALL	485650	3717750	NonCancer	0.00E+00	0.00E+00	0.00E+00
506	ALL	485750	3717750	NonCancer	0.00E+00	0.00E+00	0.00E+00
507	ALL	485850	3717750	NonCancer	0.00E+00	0.00E+00	0.00E+00
508	ALL	485950	3717750	NonCancer	0.00E+00	0.00E+00	0.00E+00
509	ALL	486050	3717750	NonCancer	0.00E+00	0.00E+00	0.00E+00
510	ALL	482250	3717850	NonCancer	0.00E+00	0.00E+00	0.00E+00
511	ALL	482650	3717850	NonCancer	0.00E+00	0.00E+00	0.00E+00
512	ALL	482750	3717850	NonCancer	0.00E+00	0.00E+00	0.00E+00
513	ALL	482850	3717850	NonCancer	0.00E+00	0.00E+00	0.00E+00
514	ALL	482950	3717850	NonCancer	0.00E+00	0.00E+00	0.00E+00
515	ALL	483350	3717850	NonCancer	0.00E+00	0.00E+00	0.00E+00
516	ALL	483450	3717850	NonCancer	0.00E+00	0.00E+00	0.00E+00
517	ALL	484550	3717850	NonCancer	0.00E+00	0.00E+00	0.00E+00
518	ALL	484650	3717850	NonCancer	0.00E+00	0.00E+00	0.00E+00
519	ALL	484750	3717850	NonCancer	0.00E+00	0.00E+00	0.00E+00
520	ALL	484850	3717850	NonCancer	0.00E+00	0.00E+00	0.00E+00
521	ALL	484950	3717850	NonCancer	0.00E+00	0.00E+00	0.00E+00
522	ALL	485150	3717850	NonCancer	0.00E+00	0.00E+00	0.00E+00
523	ALL	485250	3717850	NonCancer	0.00E+00	0.00E+00	0.00E+00
524	ALL	485450	3717850	NonCancer	0.00E+00	0.00E+00	0.00E+00
525	ALL	485550	3717850	NonCancer	0.00E+00	0.00E+00	0.00E+00
526	ALL	485650	3717850	NonCancer	0.00E+00	0.00E+00	0.00E+00

527	ALL	485750	3717850	NonCancer	0.00E+00	0.00E+00	0.00E+00
528	ALL	485850	3717850	NonCancer	0.00E+00	0.00E+00	0.00E+00
529	ALL	485950	3717850	NonCancer	0.00E+00	0.00E+00	0.00E+00
530	ALL	486050	3717850	NonCancer	0.00E+00	0.00E+00	0.00E+00
531	ALL	481950	3717950	NonCancer	0.00E+00	0.00E+00	0.00E+00
532	ALL	482250	3717950	NonCancer	0.00E+00	0.00E+00	0.00E+00
533	ALL	482350	3717950	NonCancer	0.00E+00	0.00E+00	0.00E+00
534	ALL	482750	3717950	NonCancer	0.00E+00	0.00E+00	0.00E+00
535	ALL	483350	3717950	NonCancer	0.00E+00	0.00E+00	0.00E+00
536	ALL	483450	3717950	NonCancer	0.00E+00	0.00E+00	0.00E+00
537	ALL	483550	3717950	NonCancer	0.00E+00	0.00E+00	0.00E+00
538	ALL	484550	3717950	NonCancer	0.00E+00	0.00E+00	0.00E+00
539	ALL	484650	3717950	NonCancer	0.00E+00	0.00E+00	0.00E+00
540	ALL	484750	3717950	NonCancer	0.00E+00	0.00E+00	0.00E+00
541	ALL	484850	3717950	NonCancer	0.00E+00	0.00E+00	0.00E+00
542	ALL	484950	3717950	NonCancer	0.00E+00	0.00E+00	0.00E+00
543	ALL	485350	3717950	NonCancer	0.00E+00	0.00E+00	0.00E+00
544	ALL	485450	3717950	NonCancer	0.00E+00	0.00E+00	0.00E+00
545	ALL	485550	3717950	NonCancer	0.00E+00	0.00E+00	0.00E+00
546	ALL	485650	3717950	NonCancer	0.00E+00	0.00E+00	0.00E+00
547	ALL	485750	3717950	NonCancer	0.00E+00	0.00E+00	0.00E+00
548	ALL	485850	3717950	NonCancer	0.00E+00	0.00E+00	0.00E+00
549	ALL	485950	3717950	NonCancer	0.00E+00	0.00E+00	0.00E+00
550	ALL	486050	3717950	NonCancer	0.00E+00	0.00E+00	0.00E+00
551	ALL	481950	3718050	NonCancer	0.00E+00	0.00E+00	0.00E+00
552	ALL	482050	3718050	NonCancer	0.00E+00	0.00E+00	0.00E+00
553	ALL	482750	3718050	NonCancer	0.00E+00	0.00E+00	0.00E+00
554	ALL	482850	3718050	NonCancer	0.00E+00	0.00E+00	0.00E+00
555	ALL	482950	3718050	NonCancer	0.00E+00	0.00E+00	0.00E+00
556	ALL	483050	3718050	NonCancer	0.00E+00	0.00E+00	0.00E+00
557	ALL	483150	3718050	NonCancer	0.00E+00	0.00E+00	0.00E+00
558	ALL	483250	3718050	NonCancer	0.00E+00	0.00E+00	0.00E+00
559	ALL	483350	3718050	NonCancer	0.00E+00	0.00E+00	0.00E+00
560	ALL	483450	3718050	NonCancer	0.00E+00	0.00E+00	0.00E+00
561	ALL	483550	3718050	NonCancer	0.00E+00	0.00E+00	0.00E+00
562	ALL	483650	3718050	NonCancer	0.00E+00	0.00E+00	0.00E+00
563	ALL	484550	3718050	NonCancer	0.00E+00	0.00E+00	0.00E+00
564	ALL	484650	3718050	NonCancer	0.00E+00	0.00E+00	0.00E+00
565	ALL	485450	3718050	NonCancer	0.00E+00	0.00E+00	0.00E+00
566	ALL	485550	3718050	NonCancer	0.00E+00	0.00E+00	0.00E+00
567	ALL	485650	3718050	NonCancer	0.00E+00	0.00E+00	0.00E+00
568	ALL	485750	3718050	NonCancer	0.00E+00	0.00E+00	0.00E+00
569	ALL	485850	3718050	NonCancer	0.00E+00	0.00E+00	0.00E+00
570	ALL	485950	3718050	NonCancer	0.00E+00	0.00E+00	0.00E+00

571	ALL	486050	3718050	NonCancer	0.00E+00	0.00E+00	0.00E+00
572	ALL	481950	3718150	NonCancer	0.00E+00	0.00E+00	0.00E+00
573	ALL	482050	3718150	NonCancer	0.00E+00	0.00E+00	0.00E+00
574	ALL	482150	3718150	NonCancer	0.00E+00	0.00E+00	0.00E+00
575	ALL	482250	3718150	NonCancer	0.00E+00	0.00E+00	0.00E+00
576	ALL	482350	3718150	NonCancer	0.00E+00	0.00E+00	0.00E+00
577	ALL	482650	3718150	NonCancer	0.00E+00	0.00E+00	0.00E+00
578	ALL	482750	3718150	NonCancer	0.00E+00	0.00E+00	0.00E+00
579	ALL	482850	3718150	NonCancer	0.00E+00	0.00E+00	0.00E+00
580	ALL	482950	3718150	NonCancer	0.00E+00	0.00E+00	0.00E+00
581	ALL	483050	3718150	NonCancer	0.00E+00	0.00E+00	0.00E+00
582	ALL	483150	3718150	NonCancer	0.00E+00	0.00E+00	0.00E+00
583	ALL	483350	3718150	NonCancer	0.00E+00	0.00E+00	0.00E+00
584	ALL	483450	3718150	NonCancer	0.00E+00	0.00E+00	0.00E+00
585	ALL	483550	3718150	NonCancer	0.00E+00	0.00E+00	0.00E+00
586	ALL	483650	3718150	NonCancer	0.00E+00	0.00E+00	0.00E+00
587	ALL	484550	3718150	NonCancer	0.00E+00	0.00E+00	0.00E+00
588	ALL	484650	3718150	NonCancer	0.00E+00	0.00E+00	0.00E+00
589	ALL	485250	3718150	NonCancer	0.00E+00	0.00E+00	0.00E+00
590	ALL	485550	3718150	NonCancer	0.00E+00	0.00E+00	0.00E+00
591	ALL	485650	3718150	NonCancer	0.00E+00	0.00E+00	0.00E+00
592	ALL	485750	3718150	NonCancer	0.00E+00	0.00E+00	0.00E+00
593	ALL	481950	3718250	NonCancer	0.00E+00	0.00E+00	0.00E+00
594	ALL	482050	3718250	NonCancer	0.00E+00	0.00E+00	0.00E+00
595	ALL	482150	3718250	NonCancer	0.00E+00	0.00E+00	0.00E+00
596	ALL	482250	3718250	NonCancer	0.00E+00	0.00E+00	0.00E+00
597	ALL	482350	3718250	NonCancer	0.00E+00	0.00E+00	0.00E+00
598	ALL	482450	3718250	NonCancer	0.00E+00	0.00E+00	0.00E+00
599	ALL	482550	3718250	NonCancer	0.00E+00	0.00E+00	0.00E+00
600	ALL	482650	3718250	NonCancer	0.00E+00	0.00E+00	0.00E+00
601	ALL	482750	3718250	NonCancer	0.00E+00	0.00E+00	0.00E+00
602	ALL	482850	3718250	NonCancer	0.00E+00	0.00E+00	0.00E+00
603	ALL	482950	3718250	NonCancer	0.00E+00	0.00E+00	0.00E+00
604	ALL	483250	3718250	NonCancer	0.00E+00	0.00E+00	0.00E+00
605	ALL	484550	3718250	NonCancer	0.00E+00	0.00E+00	0.00E+00
606	ALL	484650	3718250	NonCancer	0.00E+00	0.00E+00	0.00E+00
607	ALL	484750	3718250	NonCancer	0.00E+00	0.00E+00	0.00E+00
608	ALL	484850	3718250	NonCancer	0.00E+00	0.00E+00	0.00E+00
609	ALL	485150	3718250	NonCancer	0.00E+00	0.00E+00	0.00E+00
610	ALL	485250	3718250	NonCancer	0.00E+00	0.00E+00	0.00E+00
611	ALL	485650	3718250	NonCancer	0.00E+00	0.00E+00	0.00E+00
612	ALL	481950	3718350	NonCancer	0.00E+00	0.00E+00	0.00E+00
613	ALL	482050	3718350	NonCancer	0.00E+00	0.00E+00	0.00E+00
614	ALL	482150	3718350	NonCancer	0.00E+00	0.00E+00	0.00E+00

615	ALL	482250	3718350	NonCancer	0.00E+00	0.00E+00	0.00E+00
616	ALL	482350	3718350	NonCancer	0.00E+00	0.00E+00	0.00E+00
617	ALL	482450	3718350	NonCancer	0.00E+00	0.00E+00	0.00E+00
618	ALL	482550	3718350	NonCancer	0.00E+00	0.00E+00	0.00E+00
619	ALL	482650	3718350	NonCancer	0.00E+00	0.00E+00	0.00E+00
620	ALL	482750	3718350	NonCancer	0.00E+00	0.00E+00	0.00E+00
621	ALL	483150	3718350	NonCancer	0.00E+00	0.00E+00	0.00E+00
622	ALL	483450	3718350	NonCancer	0.00E+00	0.00E+00	0.00E+00
623	ALL	485250	3718350	NonCancer	0.00E+00	0.00E+00	0.00E+00
624	ALL	485350	3718350	NonCancer	0.00E+00	0.00E+00	0.00E+00
625	ALL	485550	3718350	NonCancer	0.00E+00	0.00E+00	0.00E+00
626	ALL	485650	3718350	NonCancer	0.00E+00	0.00E+00	0.00E+00
627	ALL	486150	3718350	NonCancer	0.00E+00	0.00E+00	0.00E+00
628	ALL	486250	3718350	NonCancer	0.00E+00	0.00E+00	0.00E+00
629	ALL	481950	3718450	NonCancer	0.00E+00	0.00E+00	0.00E+00
630	ALL	482050	3718450	NonCancer	0.00E+00	0.00E+00	0.00E+00
631	ALL	482150	3718450	NonCancer	0.00E+00	0.00E+00	0.00E+00
632	ALL	482250	3718450	NonCancer	0.00E+00	0.00E+00	0.00E+00
633	ALL	482350	3718450	NonCancer	0.00E+00	0.00E+00	0.00E+00
634	ALL	482450	3718450	NonCancer	0.00E+00	0.00E+00	0.00E+00
635	ALL	482550	3718450	NonCancer	0.00E+00	0.00E+00	0.00E+00
636	ALL	482650	3718450	NonCancer	0.00E+00	0.00E+00	0.00E+00
637	ALL	482750	3718450	NonCancer	0.00E+00	0.00E+00	0.00E+00
638	ALL	482850	3718450	NonCancer	0.00E+00	0.00E+00	0.00E+00
639	ALL	483350	3718450	NonCancer	0.00E+00	0.00E+00	0.00E+00
640	ALL	484450	3718450	NonCancer	0.00E+00	0.00E+00	0.00E+00
641	ALL	485150	3718450	NonCancer	0.00E+00	0.00E+00	0.00E+00
642	ALL	485250	3718450	NonCancer	0.00E+00	0.00E+00	0.00E+00
643	ALL	485350	3718450	NonCancer	0.00E+00	0.00E+00	0.00E+00
644	ALL	485750	3718450	NonCancer	0.00E+00	0.00E+00	0.00E+00
645	ALL	485850	3718450	NonCancer	0.00E+00	0.00E+00	0.00E+00
646	ALL	485950	3718450	NonCancer	0.00E+00	0.00E+00	0.00E+00
647	ALL	486050	3718450	NonCancer	0.00E+00	0.00E+00	0.00E+00
648	ALL	481950	3718550	NonCancer	0.00E+00	0.00E+00	0.00E+00
649	ALL	482050	3718550	NonCancer	0.00E+00	0.00E+00	0.00E+00
650	ALL	482150	3718550	NonCancer	0.00E+00	0.00E+00	0.00E+00
651	ALL	482250	3718550	NonCancer	0.00E+00	0.00E+00	0.00E+00
652	ALL	482350	3718550	NonCancer	0.00E+00	0.00E+00	0.00E+00
653	ALL	482450	3718550	NonCancer	0.00E+00	0.00E+00	0.00E+00
654	ALL	482550	3718550	NonCancer	0.00E+00	0.00E+00	0.00E+00
655	ALL	482650	3718550	NonCancer	0.00E+00	0.00E+00	0.00E+00
656	ALL	482750	3718550	NonCancer	0.00E+00	0.00E+00	0.00E+00
657	ALL	482850	3718550	NonCancer	0.00E+00	0.00E+00	0.00E+00
658	ALL	482950	3718550	NonCancer	0.00E+00	0.00E+00	0.00E+00

659	ALL	483550	3718550	NonCancer	0.00E+00	0.00E+00	0.00E+00
660	ALL	484650	3718550	NonCancer	0.00E+00	0.00E+00	0.00E+00
661	ALL	484750	3718550	NonCancer	0.00E+00	0.00E+00	0.00E+00
662	ALL	484850	3718550	NonCancer	0.00E+00	0.00E+00	0.00E+00
663	ALL	485850	3718550	NonCancer	0.00E+00	0.00E+00	0.00E+00
664	ALL	485950	3718550	NonCancer	0.00E+00	0.00E+00	0.00E+00
665	ALL	482050	3718650	NonCancer	0.00E+00	0.00E+00	0.00E+00
666	ALL	482150	3718650	NonCancer	0.00E+00	0.00E+00	0.00E+00
667	ALL	482250	3718650	NonCancer	0.00E+00	0.00E+00	0.00E+00
668	ALL	482350	3718650	NonCancer	0.00E+00	0.00E+00	0.00E+00
669	ALL	482450	3718650	NonCancer	0.00E+00	0.00E+00	0.00E+00
670	ALL	482550	3718650	NonCancer	0.00E+00	0.00E+00	0.00E+00
671	ALL	482650	3718650	NonCancer	0.00E+00	0.00E+00	0.00E+00
672	ALL	482750	3718650	NonCancer	0.00E+00	0.00E+00	0.00E+00
673	ALL	482850	3718650	NonCancer	0.00E+00	0.00E+00	0.00E+00
674	ALL	482950	3718650	NonCancer	0.00E+00	0.00E+00	0.00E+00
675	ALL	485150	3718650	NonCancer	0.00E+00	0.00E+00	0.00E+00
676	ALL	485450	3718650	NonCancer	0.00E+00	0.00E+00	0.00E+00
677	ALL	485550	3718650	NonCancer	0.00E+00	0.00E+00	0.00E+00
678	ALL	485650	3718650	NonCancer	0.00E+00	0.00E+00	0.00E+00
679	ALL	485850	3718650	NonCancer	0.00E+00	0.00E+00	0.00E+00
680	ALL	485950	3718650	NonCancer	0.00E+00	0.00E+00	0.00E+00
681	ALL	486050	3718650	NonCancer	0.00E+00	0.00E+00	0.00E+00
682	ALL	482050	3718750	NonCancer	0.00E+00	0.00E+00	0.00E+00
683	ALL	482150	3718750	NonCancer	0.00E+00	0.00E+00	0.00E+00
684	ALL	482250	3718750	NonCancer	0.00E+00	0.00E+00	0.00E+00
685	ALL	482350	3718750	NonCancer	0.00E+00	0.00E+00	0.00E+00
686	ALL	482450	3718750	NonCancer	0.00E+00	0.00E+00	0.00E+00
687	ALL	482550	3718750	NonCancer	0.00E+00	0.00E+00	0.00E+00
688	ALL	482650	3718750	NonCancer	0.00E+00	0.00E+00	0.00E+00
689	ALL	482750	3718750	NonCancer	0.00E+00	0.00E+00	0.00E+00
690	ALL	482850	3718750	NonCancer	0.00E+00	0.00E+00	0.00E+00
691	ALL	482950	3718750	NonCancer	0.00E+00	0.00E+00	0.00E+00
692	ALL	483050	3718750	NonCancer	0.00E+00	0.00E+00	0.00E+00
693	ALL	484950	3718750	NonCancer	0.00E+00	0.00E+00	0.00E+00
694	ALL	485050	3718750	NonCancer	0.00E+00	0.00E+00	0.00E+00
695	ALL	485150	3718750	NonCancer	0.00E+00	0.00E+00	0.00E+00
696	ALL	485850	3718750	NonCancer	0.00E+00	0.00E+00	0.00E+00
697	ALL	485950	3718750	NonCancer	0.00E+00	0.00E+00	0.00E+00
698	ALL	486050	3718750	NonCancer	0.00E+00	0.00E+00	0.00E+00
699	ALL	482350	3718850	NonCancer	0.00E+00	0.00E+00	0.00E+00
700	ALL	482450	3718850	NonCancer	0.00E+00	0.00E+00	0.00E+00
701	ALL	482550	3718850	NonCancer	0.00E+00	0.00E+00	0.00E+00
702	ALL	482650	3718850	NonCancer	0.00E+00	0.00E+00	0.00E+00

703	ALL	482750	3718850	NonCancer	0.00E+00	0.00E+00	0.00E+00
704	ALL	482850	3718850	NonCancer	0.00E+00	0.00E+00	0.00E+00
705	ALL	482950	3718850	NonCancer	0.00E+00	0.00E+00	0.00E+00
706	ALL	483050	3718850	NonCancer	0.00E+00	0.00E+00	0.00E+00
707	ALL	483150	3718850	NonCancer	0.00E+00	0.00E+00	0.00E+00
708	ALL	484150	3718850	NonCancer	0.00E+00	0.00E+00	0.00E+00
709	ALL	484250	3718850	NonCancer	0.00E+00	0.00E+00	0.00E+00
710	ALL	485350	3718850	NonCancer	0.00E+00	0.00E+00	0.00E+00
711	ALL	485450	3718850	NonCancer	0.00E+00	0.00E+00	0.00E+00
712	ALL	485750	3718850	NonCancer	0.00E+00	0.00E+00	0.00E+00
713	ALL	485850	3718850	NonCancer	0.00E+00	0.00E+00	0.00E+00
714	ALL	485950	3718850	NonCancer	0.00E+00	0.00E+00	0.00E+00
715	ALL	486050	3718850	NonCancer	0.00E+00	0.00E+00	0.00E+00
716	ALL	482450	3718950	NonCancer	0.00E+00	0.00E+00	0.00E+00
717	ALL	482550	3718950	NonCancer	0.00E+00	0.00E+00	0.00E+00
718	ALL	482650	3718950	NonCancer	0.00E+00	0.00E+00	0.00E+00
719	ALL	482750	3718950	NonCancer	0.00E+00	0.00E+00	0.00E+00
720	ALL	482850	3718950	NonCancer	0.00E+00	0.00E+00	0.00E+00
721	ALL	482950	3718950	NonCancer	0.00E+00	0.00E+00	0.00E+00
722	ALL	483050	3718950	NonCancer	0.00E+00	0.00E+00	0.00E+00
723	ALL	483150	3718950	NonCancer	0.00E+00	0.00E+00	0.00E+00
724	ALL	483250	3718950	NonCancer	0.00E+00	0.00E+00	0.00E+00
725	ALL	485750	3718950	NonCancer	0.00E+00	0.00E+00	0.00E+00
726	ALL	485850	3718950	NonCancer	0.00E+00	0.00E+00	0.00E+00
727	ALL	485950	3718950	NonCancer	0.00E+00	0.00E+00	0.00E+00
728	ALL	486050	3718950	NonCancer	0.00E+00	0.00E+00	0.00E+00
729	ALL	482250	3719050	NonCancer	0.00E+00	0.00E+00	0.00E+00
730	ALL	482350	3719050	NonCancer	0.00E+00	0.00E+00	0.00E+00
731	ALL	482450	3719050	NonCancer	0.00E+00	0.00E+00	0.00E+00
732	ALL	482550	3719050	NonCancer	0.00E+00	0.00E+00	0.00E+00
733	ALL	482650	3719050	NonCancer	0.00E+00	0.00E+00	0.00E+00
734	ALL	482850	3719050	NonCancer	0.00E+00	0.00E+00	0.00E+00
735	ALL	482950	3719050	NonCancer	0.00E+00	0.00E+00	0.00E+00
736	ALL	483050	3719050	NonCancer	0.00E+00	0.00E+00	0.00E+00
737	ALL	483150	3719050	NonCancer	0.00E+00	0.00E+00	0.00E+00
738	ALL	483250	3719050	NonCancer	0.00E+00	0.00E+00	0.00E+00
739	ALL	483350	3719050	NonCancer	0.00E+00	0.00E+00	0.00E+00
740	ALL	483450	3719050	NonCancer	0.00E+00	0.00E+00	0.00E+00
741	ALL	483550	3719050	NonCancer	0.00E+00	0.00E+00	0.00E+00
742	ALL	485250	3719050	NonCancer	0.00E+00	0.00E+00	0.00E+00
743	ALL	485450	3719050	NonCancer	0.00E+00	0.00E+00	0.00E+00
744	ALL	485550	3719050	NonCancer	0.00E+00	0.00E+00	0.00E+00
745	ALL	485650	3719050	NonCancer	0.00E+00	0.00E+00	0.00E+00
746	ALL	485750	3719050	NonCancer	0.00E+00	0.00E+00	0.00E+00

747	ALL	482350	3719150	NonCancer	0.00E+00	0.00E+00	0.00E+00
748	ALL	482650	3719150	NonCancer	0.00E+00	0.00E+00	0.00E+00
749	ALL	482850	3719150	NonCancer	0.00E+00	0.00E+00	0.00E+00
750	ALL	483050	3719150	NonCancer	0.00E+00	0.00E+00	0.00E+00
751	ALL	483150	3719150	NonCancer	0.00E+00	0.00E+00	0.00E+00
752	ALL	483250	3719150	NonCancer	0.00E+00	0.00E+00	0.00E+00
753	ALL	483350	3719150	NonCancer	0.00E+00	0.00E+00	0.00E+00
754	ALL	483450	3719150	NonCancer	0.00E+00	0.00E+00	0.00E+00
755	ALL	483550	3719150	NonCancer	0.00E+00	0.00E+00	0.00E+00
756	ALL	485250	3719150	NonCancer	0.00E+00	0.00E+00	0.00E+00
757	ALL	485550	3719150	NonCancer	0.00E+00	0.00E+00	0.00E+00
758	ALL	485650	3719150	NonCancer	0.00E+00	0.00E+00	0.00E+00
759	ALL	485950	3719150	NonCancer	0.00E+00	0.00E+00	0.00E+00
760	ALL	484550	3719250	NonCancer	0.00E+00	0.00E+00	0.00E+00
761	ALL	484750	3719250	NonCancer	0.00E+00	0.00E+00	0.00E+00
762	ALL	484850	3719250	NonCancer	0.00E+00	0.00E+00	0.00E+00
763	ALL	484750	3719350	NonCancer	0.00E+00	0.00E+00	0.00E+00
764	ALL	484850	3719350	NonCancer	0.00E+00	0.00E+00	0.00E+00
765	ALL	484950	3719350	NonCancer	0.00E+00	0.00E+00	0.00E+00
766	ALL	485050	3719350	NonCancer	0.00E+00	0.00E+00	0.00E+00
767	ALL	485150	3719350	NonCancer	0.00E+00	0.00E+00	0.00E+00
768	ALL	484250	3719450	NonCancer	0.00E+00	0.00E+00	0.00E+00
769	ALL	484350	3719450	NonCancer	0.00E+00	0.00E+00	0.00E+00
770	ALL	484450	3719450	NonCancer	0.00E+00	0.00E+00	0.00E+00
771	ALL	484550	3719450	NonCancer	0.00E+00	0.00E+00	0.00E+00
772	ALL	484650	3719450	NonCancer	0.00E+00	0.00E+00	0.00E+00
773	ALL	484750	3719450	NonCancer	0.00E+00	0.00E+00	0.00E+00
774	ALL	484850	3719450	NonCancer	0.00E+00	0.00E+00	0.00E+00
775	ALL	484950	3719450	NonCancer	0.00E+00	0.00E+00	0.00E+00
776	ALL	485050	3719450	NonCancer	0.00E+00	0.00E+00	0.00E+00
777	ALL	485150	3719450	NonCancer	0.00E+00	0.00E+00	0.00E+00
778	ALL	485250	3719450	NonCancer	0.00E+00	0.00E+00	0.00E+00
779	ALL	485350	3719450	NonCancer	0.00E+00	0.00E+00	0.00E+00
780	ALL	485450	3719450	NonCancer	0.00E+00	0.00E+00	0.00E+00
781	ALL	485550	3719450	NonCancer	0.00E+00	0.00E+00	0.00E+00
782	ALL	484250	3719550	NonCancer	0.00E+00	0.00E+00	0.00E+00
783	ALL	484350	3719550	NonCancer	0.00E+00	0.00E+00	0.00E+00
784	ALL	484450	3719550	NonCancer	0.00E+00	0.00E+00	0.00E+00
785	ALL	484550	3719550	NonCancer	0.00E+00	0.00E+00	0.00E+00
786	ALL	484650	3719550	NonCancer	0.00E+00	0.00E+00	0.00E+00
787	ALL	484750	3719550	NonCancer	0.00E+00	0.00E+00	0.00E+00
788	ALL	484850	3719550	NonCancer	0.00E+00	0.00E+00	0.00E+00
789	ALL	484950	3719550	NonCancer	0.00E+00	0.00E+00	0.00E+00
790	ALL	485050	3719550	NonCancer	0.00E+00	0.00E+00	0.00E+00

791	ALL	485150	3719550	NonCancer	0.00E+00	0.00E+00	0.00E+00
792	ALL	485250	3719550	NonCancer	0.00E+00	0.00E+00	0.00E+00
793	ALL	485350	3719550	NonCancer	0.00E+00	0.00E+00	0.00E+00
794	ALL	485450	3719550	NonCancer	0.00E+00	0.00E+00	0.00E+00
795	ALL	485550	3719550	NonCancer	0.00E+00	0.00E+00	0.00E+00
796	ALL	484450	3719850	NonCancer	0.00E+00	0.00E+00	0.00E+00
797	ALL	484550	3719850	NonCancer	0.00E+00	0.00E+00	0.00E+00
798	ALL	484650	3719850	NonCancer	0.00E+00	0.00E+00	0.00E+00
799	ALL	484350	3719950	NonCancer	0.00E+00	0.00E+00	0.00E+00
800	ALL	484450	3719950	NonCancer	0.00E+00	0.00E+00	0.00E+00
801	ALL	484550	3719950	NonCancer	0.00E+00	0.00E+00	0.00E+00
802	ALL	484650	3719950	NonCancer	0.00E+00	0.00E+00	0.00E+00
803	ALL	483837.5	3717213	NonCancer	0.00E+00	0.00E+00	0.00E+00
804	ALL	483862.5	3717213	NonCancer	0.00E+00	0.00E+00	0.00E+00
805	ALL	483887.5	3717213	NonCancer	0.00E+00	0.00E+00	0.00E+00
806	ALL	483412.5	3717238	NonCancer	0.00E+00	0.00E+00	0.00E+00
807	ALL	483812.5	3717238	NonCancer	0.00E+00	0.00E+00	0.00E+00
808	ALL	483837.5	3717238	NonCancer	0.00E+00	0.00E+00	0.00E+00
809	ALL	483862.5	3717238	NonCancer	0.00E+00	0.00E+00	0.00E+00
810	ALL	483887.5	3717238	NonCancer	0.00E+00	0.00E+00	0.00E+00
811	ALL	483912.5	3717238	NonCancer	0.00E+00	0.00E+00	0.00E+00
812	ALL	483937.5	3717238	NonCancer	0.00E+00	0.00E+00	0.00E+00
813	ALL	483412.5	3717263	NonCancer	0.00E+00	0.00E+00	0.00E+00
814	ALL	483437.5	3717263	NonCancer	0.00E+00	0.00E+00	0.00E+00
815	ALL	483462.5	3717263	NonCancer	0.00E+00	0.00E+00	0.00E+00
816	ALL	483812.5	3717263	NonCancer	0.00E+00	0.00E+00	0.00E+00
817	ALL	483837.5	3717263	NonCancer	0.00E+00	0.00E+00	0.00E+00
818	ALL	483862.5	3717263	NonCancer	0.00E+00	0.00E+00	0.00E+00
819	ALL	483887.5	3717263	NonCancer	0.00E+00	0.00E+00	0.00E+00
820	ALL	483912.5	3717263	NonCancer	0.00E+00	0.00E+00	0.00E+00
821	ALL	483937.5	3717263	NonCancer	0.00E+00	0.00E+00	0.00E+00
822	ALL	483962.5	3717263	NonCancer	0.00E+00	0.00E+00	0.00E+00
823	ALL	483987.5	3717263	NonCancer	0.00E+00	0.00E+00	0.00E+00
824	ALL	483412.5	3717288	NonCancer	0.00E+00	0.00E+00	0.00E+00
825	ALL	483437.5	3717288	NonCancer	0.00E+00	0.00E+00	0.00E+00
826	ALL	483462.5	3717288	NonCancer	0.00E+00	0.00E+00	0.00E+00
827	ALL	483487.5	3717288	NonCancer	0.00E+00	0.00E+00	0.00E+00
828	ALL	483812.5	3717288	NonCancer	0.00E+00	0.00E+00	0.00E+00
829	ALL	483837.5	3717288	NonCancer	0.00E+00	0.00E+00	0.00E+00
830	ALL	483862.5	3717288	NonCancer	0.00E+00	0.00E+00	0.00E+00
831	ALL	483887.5	3717288	NonCancer	0.00E+00	0.00E+00	0.00E+00
832	ALL	483912.5	3717288	NonCancer	0.00E+00	0.00E+00	0.00E+00
833	ALL	483937.5	3717288	NonCancer	0.00E+00	0.00E+00	0.00E+00
834	ALL	483962.5	3717288	NonCancer	0.00E+00	0.00E+00	0.00E+00

835	ALL	483987.5	3717288	NonCancer	0.00E+00	0.00E+00	0.00E+00
836	ALL	484012.5	3717288	NonCancer	0.00E+00	0.00E+00	0.00E+00
837	ALL	483412.5	3717313	NonCancer	0.00E+00	0.00E+00	0.00E+00
838	ALL	483437.5	3717313	NonCancer	0.00E+00	0.00E+00	0.00E+00
839	ALL	483462.5	3717313	NonCancer	0.00E+00	0.00E+00	0.00E+00
840	ALL	483487.5	3717313	NonCancer	0.00E+00	0.00E+00	0.00E+00
841	ALL	483512.5	3717313	NonCancer	0.00E+00	0.00E+00	0.00E+00
842	ALL	483787.5	3717313	NonCancer	0.00E+00	0.00E+00	0.00E+00
843	ALL	483812.5	3717313	NonCancer	0.00E+00	0.00E+00	0.00E+00
844	ALL	483837.5	3717313	NonCancer	0.00E+00	0.00E+00	0.00E+00
845	ALL	483862.5	3717313	NonCancer	0.00E+00	0.00E+00	0.00E+00
846	ALL	483887.5	3717313	NonCancer	0.00E+00	0.00E+00	0.00E+00
847	ALL	483912.5	3717313	NonCancer	0.00E+00	0.00E+00	0.00E+00
848	ALL	483937.5	3717313	NonCancer	0.00E+00	0.00E+00	0.00E+00
849	ALL	483962.5	3717313	NonCancer	0.00E+00	0.00E+00	0.00E+00
850	ALL	483987.5	3717313	NonCancer	0.00E+00	0.00E+00	0.00E+00
851	ALL	484012.5	3717313	NonCancer	0.00E+00	0.00E+00	0.00E+00
852	ALL	484037.5	3717313	NonCancer	0.00E+00	0.00E+00	0.00E+00
853	ALL	484562.5	3717313	NonCancer	0.00E+00	0.00E+00	0.00E+00
854	ALL	484587.5	3717313	NonCancer	0.00E+00	0.00E+00	0.00E+00
855	ALL	484612.5	3717313	NonCancer	0.00E+00	0.00E+00	0.00E+00
856	ALL	484637.5	3717313	NonCancer	0.00E+00	0.00E+00	0.00E+00
857	ALL	484662.5	3717313	NonCancer	0.00E+00	0.00E+00	0.00E+00
858	ALL	484687.5	3717313	NonCancer	0.00E+00	0.00E+00	0.00E+00
859	ALL	484712.5	3717313	NonCancer	0.00E+00	0.00E+00	0.00E+00
860	ALL	484737.5	3717313	NonCancer	0.00E+00	0.00E+00	0.00E+00
861	ALL	484762.5	3717313	NonCancer	0.00E+00	0.00E+00	0.00E+00
862	ALL	483412.5	3717338	NonCancer	0.00E+00	0.00E+00	0.00E+00
863	ALL	483437.5	3717338	NonCancer	0.00E+00	0.00E+00	0.00E+00
864	ALL	483462.5	3717338	NonCancer	0.00E+00	0.00E+00	0.00E+00
865	ALL	483487.5	3717338	NonCancer	0.00E+00	0.00E+00	0.00E+00
866	ALL	483512.5	3717338	NonCancer	0.00E+00	0.00E+00	0.00E+00
867	ALL	483537.5	3717338	NonCancer	0.00E+00	0.00E+00	0.00E+00
868	ALL	483787.5	3717338	NonCancer	0.00E+00	0.00E+00	0.00E+00
869	ALL	483812.5	3717338	NonCancer	0.00E+00	0.00E+00	0.00E+00
870	ALL	483837.5	3717338	NonCancer	0.00E+00	0.00E+00	0.00E+00
871	ALL	483862.5	3717338	NonCancer	0.00E+00	0.00E+00	0.00E+00
872	ALL	483887.5	3717338	NonCancer	0.00E+00	0.00E+00	0.00E+00
873	ALL	483912.5	3717338	NonCancer	0.00E+00	0.00E+00	0.00E+00
874	ALL	483937.5	3717338	NonCancer	0.00E+00	0.00E+00	0.00E+00
875	ALL	483962.5	3717338	NonCancer	0.00E+00	0.00E+00	0.00E+00
876	ALL	483987.5	3717338	NonCancer	0.00E+00	0.00E+00	0.00E+00
877	ALL	484012.5	3717338	NonCancer	0.00E+00	0.00E+00	0.00E+00
878	ALL	484037.5	3717338	NonCancer	0.00E+00	0.00E+00	0.00E+00

879	ALL	484562.5	3717338	NonCancer	0.00E+00	0.00E+00	0.00E+00
880	ALL	484587.5	3717338	NonCancer	0.00E+00	0.00E+00	0.00E+00
881	ALL	484612.5	3717338	NonCancer	0.00E+00	0.00E+00	0.00E+00
882	ALL	484637.5	3717338	NonCancer	0.00E+00	0.00E+00	0.00E+00
883	ALL	484662.5	3717338	NonCancer	0.00E+00	0.00E+00	0.00E+00
884	ALL	484687.5	3717338	NonCancer	0.00E+00	0.00E+00	0.00E+00
885	ALL	484712.5	3717338	NonCancer	0.00E+00	0.00E+00	0.00E+00
886	ALL	484737.5	3717338	NonCancer	0.00E+00	0.00E+00	0.00E+00
887	ALL	484762.5	3717338	NonCancer	0.00E+00	0.00E+00	0.00E+00
888	ALL	483412.5	3717363	NonCancer	0.00E+00	0.00E+00	0.00E+00
889	ALL	483437.5	3717363	NonCancer	0.00E+00	0.00E+00	0.00E+00
890	ALL	483462.5	3717363	NonCancer	0.00E+00	0.00E+00	0.00E+00
891	ALL	483487.5	3717363	NonCancer	0.00E+00	0.00E+00	0.00E+00
892	ALL	483512.5	3717363	NonCancer	0.00E+00	0.00E+00	0.00E+00
893	ALL	483537.5	3717363	NonCancer	0.00E+00	0.00E+00	0.00E+00
894	ALL	483787.5	3717363	NonCancer	0.00E+00	0.00E+00	0.00E+00
895	ALL	483812.5	3717363	NonCancer	0.00E+00	0.00E+00	0.00E+00
896	ALL	483837.5	3717363	NonCancer	0.00E+00	0.00E+00	0.00E+00
897	ALL	483862.5	3717363	NonCancer	0.00E+00	0.00E+00	0.00E+00
898	ALL	483887.5	3717363	NonCancer	0.00E+00	0.00E+00	0.00E+00
899	ALL	483912.5	3717363	NonCancer	0.00E+00	0.00E+00	0.00E+00
900	ALL	483937.5	3717363	NonCancer	0.00E+00	0.00E+00	0.00E+00
901	ALL	483962.5	3717363	NonCancer	0.00E+00	0.00E+00	0.00E+00
902	ALL	483987.5	3717363	NonCancer	0.00E+00	0.00E+00	0.00E+00
903	ALL	484012.5	3717363	NonCancer	0.00E+00	0.00E+00	0.00E+00
904	ALL	484037.5	3717363	NonCancer	0.00E+00	0.00E+00	0.00E+00
905	ALL	484562.5	3717363	NonCancer	0.00E+00	0.00E+00	0.00E+00
906	ALL	484587.5	3717363	NonCancer	0.00E+00	0.00E+00	0.00E+00
907	ALL	484612.5	3717363	NonCancer	0.00E+00	0.00E+00	0.00E+00
908	ALL	484637.5	3717363	NonCancer	0.00E+00	0.00E+00	0.00E+00
909	ALL	484662.5	3717363	NonCancer	0.00E+00	0.00E+00	0.00E+00
910	ALL	484687.5	3717363	NonCancer	0.00E+00	0.00E+00	0.00E+00
911	ALL	484712.5	3717363	NonCancer	0.00E+00	0.00E+00	0.00E+00
912	ALL	484737.5	3717363	NonCancer	0.00E+00	0.00E+00	0.00E+00
913	ALL	484762.5	3717363	NonCancer	0.00E+00	0.00E+00	0.00E+00
914	ALL	484787.5	3717363	NonCancer	0.00E+00	0.00E+00	0.00E+00
915	ALL	483412.5	3717388	NonCancer	0.00E+00	0.00E+00	0.00E+00
916	ALL	483437.5	3717388	NonCancer	0.00E+00	0.00E+00	0.00E+00
917	ALL	483462.5	3717388	NonCancer	0.00E+00	0.00E+00	0.00E+00
918	ALL	483487.5	3717388	NonCancer	0.00E+00	0.00E+00	0.00E+00
919	ALL	483512.5	3717388	NonCancer	0.00E+00	0.00E+00	0.00E+00
920	ALL	483537.5	3717388	NonCancer	0.00E+00	0.00E+00	0.00E+00
921	ALL	483562.5	3717388	NonCancer	0.00E+00	0.00E+00	0.00E+00
922	ALL	483787.5	3717388	NonCancer	0.00E+00	0.00E+00	0.00E+00

923	ALL	483812.5	3717388	NonCancer	0.00E+00	0.00E+00	0.00E+00
924	ALL	483837.5	3717388	NonCancer	0.00E+00	0.00E+00	0.00E+00
925	ALL	483862.5	3717388	NonCancer	0.00E+00	0.00E+00	0.00E+00
926	ALL	483887.5	3717388	NonCancer	0.00E+00	0.00E+00	0.00E+00
927	ALL	483912.5	3717388	NonCancer	0.00E+00	0.00E+00	0.00E+00
928	ALL	483937.5	3717388	NonCancer	0.00E+00	0.00E+00	0.00E+00
929	ALL	483962.5	3717388	NonCancer	0.00E+00	0.00E+00	0.00E+00
930	ALL	483987.5	3717388	NonCancer	0.00E+00	0.00E+00	0.00E+00
931	ALL	484012.5	3717388	NonCancer	0.00E+00	0.00E+00	0.00E+00
932	ALL	484037.5	3717388	NonCancer	0.00E+00	0.00E+00	0.00E+00
933	ALL	484062.5	3717388	NonCancer	0.00E+00	0.00E+00	0.00E+00
934	ALL	484562.5	3717388	NonCancer	0.00E+00	0.00E+00	0.00E+00
935	ALL	484587.5	3717388	NonCancer	0.00E+00	0.00E+00	0.00E+00
936	ALL	484612.5	3717388	NonCancer	0.00E+00	0.00E+00	0.00E+00
937	ALL	484637.5	3717388	NonCancer	0.00E+00	0.00E+00	0.00E+00
938	ALL	484662.5	3717388	NonCancer	0.00E+00	0.00E+00	0.00E+00
939	ALL	484687.5	3717388	NonCancer	0.00E+00	0.00E+00	0.00E+00
940	ALL	484712.5	3717388	NonCancer	0.00E+00	0.00E+00	0.00E+00
941	ALL	484737.5	3717388	NonCancer	0.00E+00	0.00E+00	0.00E+00
942	ALL	484762.5	3717388	NonCancer	0.00E+00	0.00E+00	0.00E+00
943	ALL	484787.5	3717388	NonCancer	0.00E+00	0.00E+00	0.00E+00
944	ALL	483412.5	3717413	NonCancer	0.00E+00	0.00E+00	0.00E+00
945	ALL	483437.5	3717413	NonCancer	0.00E+00	0.00E+00	0.00E+00
946	ALL	483462.5	3717413	NonCancer	0.00E+00	0.00E+00	0.00E+00
947	ALL	483487.5	3717413	NonCancer	0.00E+00	0.00E+00	0.00E+00
948	ALL	483512.5	3717413	NonCancer	0.00E+00	0.00E+00	0.00E+00
949	ALL	483537.5	3717413	NonCancer	0.00E+00	0.00E+00	0.00E+00
950	ALL	483562.5	3717413	NonCancer	0.00E+00	0.00E+00	0.00E+00
951	ALL	483787.5	3717413	NonCancer	0.00E+00	0.00E+00	0.00E+00
952	ALL	483812.5	3717413	NonCancer	0.00E+00	0.00E+00	0.00E+00
953	ALL	483837.5	3717413	NonCancer	0.00E+00	0.00E+00	0.00E+00
954	ALL	483862.5	3717413	NonCancer	0.00E+00	0.00E+00	0.00E+00
955	ALL	483887.5	3717413	NonCancer	0.00E+00	0.00E+00	0.00E+00
956	ALL	483912.5	3717413	NonCancer	0.00E+00	0.00E+00	0.00E+00
957	ALL	483937.5	3717413	NonCancer	0.00E+00	0.00E+00	0.00E+00
958	ALL	483962.5	3717413	NonCancer	0.00E+00	0.00E+00	0.00E+00
959	ALL	483987.5	3717413	NonCancer	0.00E+00	0.00E+00	0.00E+00
960	ALL	484012.5	3717413	NonCancer	0.00E+00	0.00E+00	0.00E+00
961	ALL	484037.5	3717413	NonCancer	0.00E+00	0.00E+00	0.00E+00
962	ALL	484062.5	3717413	NonCancer	0.00E+00	0.00E+00	0.00E+00
963	ALL	484487.5	3717413	NonCancer	0.00E+00	0.00E+00	0.00E+00
964	ALL	484512.5	3717413	NonCancer	0.00E+00	0.00E+00	0.00E+00
965	ALL	484537.5	3717413	NonCancer	0.00E+00	0.00E+00	0.00E+00
966	ALL	484562.5	3717413	NonCancer	0.00E+00	0.00E+00	0.00E+00

967	ALL	484587.5	3717413	NonCancer	0.00E+00	0.00E+00	0.00E+00
968	ALL	484612.5	3717413	NonCancer	0.00E+00	0.00E+00	0.00E+00
969	ALL	484637.5	3717413	NonCancer	0.00E+00	0.00E+00	0.00E+00
970	ALL	484662.5	3717413	NonCancer	0.00E+00	0.00E+00	0.00E+00
971	ALL	484687.5	3717413	NonCancer	0.00E+00	0.00E+00	0.00E+00
972	ALL	484712.5	3717413	NonCancer	0.00E+00	0.00E+00	0.00E+00
973	ALL	484737.5	3717413	NonCancer	0.00E+00	0.00E+00	0.00E+00
974	ALL	484762.5	3717413	NonCancer	0.00E+00	0.00E+00	0.00E+00
975	ALL	484787.5	3717413	NonCancer	0.00E+00	0.00E+00	0.00E+00
976	ALL	483412.5	3717438	NonCancer	0.00E+00	0.00E+00	0.00E+00
977	ALL	483437.5	3717438	NonCancer	0.00E+00	0.00E+00	0.00E+00
978	ALL	483462.5	3717438	NonCancer	0.00E+00	0.00E+00	0.00E+00
979	ALL	483487.5	3717438	NonCancer	0.00E+00	0.00E+00	0.00E+00
980	ALL	483512.5	3717438	NonCancer	0.00E+00	0.00E+00	0.00E+00
981	ALL	483537.5	3717438	NonCancer	0.00E+00	0.00E+00	0.00E+00
982	ALL	483562.5	3717438	NonCancer	0.00E+00	0.00E+00	0.00E+00
983	ALL	483587.5	3717438	NonCancer	0.00E+00	0.00E+00	0.00E+00
984	ALL	483837.5	3717438	NonCancer	0.00E+00	0.00E+00	0.00E+00
985	ALL	483862.5	3717438	NonCancer	0.00E+00	0.00E+00	0.00E+00
986	ALL	483887.5	3717438	NonCancer	0.00E+00	0.00E+00	0.00E+00
987	ALL	483912.5	3717438	NonCancer	0.00E+00	0.00E+00	0.00E+00
988	ALL	483937.5	3717438	NonCancer	0.00E+00	0.00E+00	0.00E+00
989	ALL	483962.5	3717438	NonCancer	0.00E+00	0.00E+00	0.00E+00
990	ALL	483987.5	3717438	NonCancer	0.00E+00	0.00E+00	0.00E+00
991	ALL	484012.5	3717438	NonCancer	0.00E+00	0.00E+00	0.00E+00
992	ALL	484037.5	3717438	NonCancer	0.00E+00	0.00E+00	0.00E+00
993	ALL	484062.5	3717438	NonCancer	0.00E+00	0.00E+00	0.00E+00
994	ALL	484487.5	3717438	NonCancer	0.00E+00	0.00E+00	0.00E+00
995	ALL	484512.5	3717438	NonCancer	0.00E+00	0.00E+00	0.00E+00
996	ALL	484537.5	3717438	NonCancer	0.00E+00	0.00E+00	0.00E+00
997	ALL	484562.5	3717438	NonCancer	0.00E+00	0.00E+00	0.00E+00
998	ALL	484587.5	3717438	NonCancer	0.00E+00	0.00E+00	0.00E+00
999	ALL	484612.5	3717438	NonCancer	0.00E+00	0.00E+00	0.00E+00
1000	ALL	484637.5	3717438	NonCancer	0.00E+00	0.00E+00	0.00E+00
1001	ALL	484662.5	3717438	NonCancer	0.00E+00	0.00E+00	0.00E+00
1002	ALL	484687.5	3717438	NonCancer	0.00E+00	0.00E+00	0.00E+00
1003	ALL	484712.5	3717438	NonCancer	0.00E+00	0.00E+00	0.00E+00
1004	ALL	484737.5	3717438	NonCancer	0.00E+00	0.00E+00	0.00E+00
1005	ALL	484762.5	3717438	NonCancer	0.00E+00	0.00E+00	0.00E+00
1006	ALL	483412.5	3717463	NonCancer	0.00E+00	0.00E+00	0.00E+00
1007	ALL	483437.5	3717463	NonCancer	0.00E+00	0.00E+00	0.00E+00
1008	ALL	483462.5	3717463	NonCancer	0.00E+00	0.00E+00	0.00E+00
1009	ALL	483487.5	3717463	NonCancer	0.00E+00	0.00E+00	0.00E+00
1010	ALL	483512.5	3717463	NonCancer	0.00E+00	0.00E+00	0.00E+00

1011	ALL	483537.5	3717463	NonCancer	0.00E+00	0.00E+00	0.00E+00
1012	ALL	483562.5	3717463	NonCancer	0.00E+00	0.00E+00	0.00E+00
1013	ALL	483587.5	3717463	NonCancer	0.00E+00	0.00E+00	0.00E+00
1014	ALL	483887.5	3717463	NonCancer	0.00E+00	0.00E+00	0.00E+00
1015	ALL	483912.5	3717463	NonCancer	0.00E+00	0.00E+00	0.00E+00
1016	ALL	483937.5	3717463	NonCancer	0.00E+00	0.00E+00	0.00E+00
1017	ALL	483962.5	3717463	NonCancer	0.00E+00	0.00E+00	0.00E+00
1018	ALL	483987.5	3717463	NonCancer	0.00E+00	0.00E+00	0.00E+00
1019	ALL	484012.5	3717463	NonCancer	0.00E+00	0.00E+00	0.00E+00
1020	ALL	484037.5	3717463	NonCancer	0.00E+00	0.00E+00	0.00E+00
1021	ALL	484062.5	3717463	NonCancer	0.00E+00	0.00E+00	0.00E+00
1022	ALL	484487.5	3717463	NonCancer	0.00E+00	0.00E+00	0.00E+00
1023	ALL	484512.5	3717463	NonCancer	0.00E+00	0.00E+00	0.00E+00
1024	ALL	484537.5	3717463	NonCancer	0.00E+00	0.00E+00	0.00E+00
1025	ALL	484562.5	3717463	NonCancer	0.00E+00	0.00E+00	0.00E+00
1026	ALL	484587.5	3717463	NonCancer	0.00E+00	0.00E+00	0.00E+00
1027	ALL	484612.5	3717463	NonCancer	0.00E+00	0.00E+00	0.00E+00
1028	ALL	484637.5	3717463	NonCancer	0.00E+00	0.00E+00	0.00E+00
1029	ALL	484662.5	3717463	NonCancer	0.00E+00	0.00E+00	0.00E+00
1030	ALL	484687.5	3717463	NonCancer	0.00E+00	0.00E+00	0.00E+00
1031	ALL	484712.5	3717463	NonCancer	0.00E+00	0.00E+00	0.00E+00
1032	ALL	484737.5	3717463	NonCancer	0.00E+00	0.00E+00	0.00E+00
1033	ALL	484762.5	3717463	NonCancer	0.00E+00	0.00E+00	0.00E+00
1034	ALL	483412.5	3717488	NonCancer	0.00E+00	0.00E+00	0.00E+00
1035	ALL	483437.5	3717488	NonCancer	0.00E+00	0.00E+00	0.00E+00
1036	ALL	483462.5	3717488	NonCancer	0.00E+00	0.00E+00	0.00E+00
1037	ALL	483487.5	3717488	NonCancer	0.00E+00	0.00E+00	0.00E+00
1038	ALL	483512.5	3717488	NonCancer	0.00E+00	0.00E+00	0.00E+00
1039	ALL	483537.5	3717488	NonCancer	0.00E+00	0.00E+00	0.00E+00
1040	ALL	483562.5	3717488	NonCancer	0.00E+00	0.00E+00	0.00E+00
1041	ALL	483587.5	3717488	NonCancer	0.00E+00	0.00E+00	0.00E+00
1042	ALL	483612.5	3717488	NonCancer	0.00E+00	0.00E+00	0.00E+00
1043	ALL	483912.5	3717488	NonCancer	0.00E+00	0.00E+00	0.00E+00
1044	ALL	483937.5	3717488	NonCancer	0.00E+00	0.00E+00	0.00E+00
1045	ALL	483962.5	3717488	NonCancer	0.00E+00	0.00E+00	0.00E+00
1046	ALL	483987.5	3717488	NonCancer	0.00E+00	0.00E+00	0.00E+00
1047	ALL	484012.5	3717488	NonCancer	0.00E+00	0.00E+00	0.00E+00
1048	ALL	484037.5	3717488	NonCancer	0.00E+00	0.00E+00	0.00E+00
1049	ALL	484062.5	3717488	NonCancer	0.00E+00	0.00E+00	0.00E+00
1050	ALL	484537.5	3717488	NonCancer	0.00E+00	0.00E+00	0.00E+00
1051	ALL	484562.5	3717488	NonCancer	0.00E+00	0.00E+00	0.00E+00
1052	ALL	484587.5	3717488	NonCancer	0.00E+00	0.00E+00	0.00E+00
1053	ALL	484612.5	3717488	NonCancer	0.00E+00	0.00E+00	0.00E+00
1054	ALL	484637.5	3717488	NonCancer	0.00E+00	0.00E+00	0.00E+00

1055	ALL	484662.5	3717488	NonCancer	0.00E+00	0.00E+00	0.00E+00
1056	ALL	484687.5	3717488	NonCancer	0.00E+00	0.00E+00	0.00E+00
1057	ALL	484712.5	3717488	NonCancer	0.00E+00	0.00E+00	0.00E+00
1058	ALL	484737.5	3717488	NonCancer	0.00E+00	0.00E+00	0.00E+00
1059	ALL	484762.5	3717488	NonCancer	0.00E+00	0.00E+00	0.00E+00
1060	ALL	483412.5	3717513	NonCancer	0.00E+00	0.00E+00	0.00E+00
1061	ALL	483437.5	3717513	NonCancer	0.00E+00	0.00E+00	0.00E+00
1062	ALL	483462.5	3717513	NonCancer	0.00E+00	0.00E+00	0.00E+00
1063	ALL	483487.5	3717513	NonCancer	0.00E+00	0.00E+00	0.00E+00
1064	ALL	483512.5	3717513	NonCancer	0.00E+00	0.00E+00	0.00E+00
1065	ALL	483537.5	3717513	NonCancer	0.00E+00	0.00E+00	0.00E+00
1066	ALL	483562.5	3717513	NonCancer	0.00E+00	0.00E+00	0.00E+00
1067	ALL	483587.5	3717513	NonCancer	0.00E+00	0.00E+00	0.00E+00
1068	ALL	483612.5	3717513	NonCancer	0.00E+00	0.00E+00	0.00E+00
1069	ALL	483912.5	3717513	NonCancer	0.00E+00	0.00E+00	0.00E+00
1070	ALL	483937.5	3717513	NonCancer	0.00E+00	0.00E+00	0.00E+00
1071	ALL	483962.5	3717513	NonCancer	0.00E+00	0.00E+00	0.00E+00
1072	ALL	483987.5	3717513	NonCancer	0.00E+00	0.00E+00	0.00E+00
1073	ALL	484012.5	3717513	NonCancer	0.00E+00	0.00E+00	0.00E+00
1074	ALL	484037.5	3717513	NonCancer	0.00E+00	0.00E+00	0.00E+00
1075	ALL	484062.5	3717513	NonCancer	0.00E+00	0.00E+00	0.00E+00
1076	ALL	484537.5	3717513	NonCancer	0.00E+00	0.00E+00	0.00E+00
1077	ALL	484562.5	3717513	NonCancer	0.00E+00	0.00E+00	0.00E+00
1078	ALL	484587.5	3717513	NonCancer	0.00E+00	0.00E+00	0.00E+00
1079	ALL	484612.5	3717513	NonCancer	0.00E+00	0.00E+00	0.00E+00
1080	ALL	484637.5	3717513	NonCancer	0.00E+00	0.00E+00	0.00E+00
1081	ALL	484662.5	3717513	NonCancer	0.00E+00	0.00E+00	0.00E+00
1082	ALL	484687.5	3717513	NonCancer	0.00E+00	0.00E+00	0.00E+00
1083	ALL	484712.5	3717513	NonCancer	0.00E+00	0.00E+00	0.00E+00
1084	ALL	484737.5	3717513	NonCancer	0.00E+00	0.00E+00	0.00E+00
1085	ALL	484762.5	3717513	NonCancer	0.00E+00	0.00E+00	0.00E+00
1086	ALL	483412.5	3717538	NonCancer	0.00E+00	0.00E+00	0.00E+00
1087	ALL	483437.5	3717538	NonCancer	0.00E+00	0.00E+00	0.00E+00
1088	ALL	483462.5	3717538	NonCancer	0.00E+00	0.00E+00	0.00E+00
1089	ALL	483487.5	3717538	NonCancer	0.00E+00	0.00E+00	0.00E+00
1090	ALL	483512.5	3717538	NonCancer	0.00E+00	0.00E+00	0.00E+00
1091	ALL	483537.5	3717538	NonCancer	0.00E+00	0.00E+00	0.00E+00
1092	ALL	483562.5	3717538	NonCancer	0.00E+00	0.00E+00	0.00E+00
1093	ALL	483587.5	3717538	NonCancer	0.00E+00	0.00E+00	0.00E+00
1094	ALL	483612.5	3717538	NonCancer	0.00E+00	0.00E+00	0.00E+00
1095	ALL	483637.5	3717538	NonCancer	0.00E+00	0.00E+00	0.00E+00
1096	ALL	483937.5	3717538	NonCancer	0.00E+00	0.00E+00	0.00E+00
1097	ALL	483962.5	3717538	NonCancer	0.00E+00	0.00E+00	0.00E+00
1098	ALL	483987.5	3717538	NonCancer	0.00E+00	0.00E+00	0.00E+00

1099	ALL	484012.5	3717538	NonCancer	0.00E+00	0.00E+00	0.00E+00
1100	ALL	484037.5	3717538	NonCancer	0.00E+00	0.00E+00	0.00E+00
1101	ALL	484062.5	3717538	NonCancer	0.00E+00	0.00E+00	0.00E+00
1102	ALL	483412.5	3717563	NonCancer	0.00E+00	0.00E+00	0.00E+00
1103	ALL	483437.5	3717563	NonCancer	0.00E+00	0.00E+00	0.00E+00
1104	ALL	483462.5	3717563	NonCancer	0.00E+00	0.00E+00	0.00E+00
1105	ALL	483487.5	3717563	NonCancer	0.00E+00	0.00E+00	0.00E+00
1106	ALL	483512.5	3717563	NonCancer	0.00E+00	0.00E+00	0.00E+00
1107	ALL	483537.5	3717563	NonCancer	0.00E+00	0.00E+00	0.00E+00
1108	ALL	483562.5	3717563	NonCancer	0.00E+00	0.00E+00	0.00E+00
1109	ALL	483587.5	3717563	NonCancer	0.00E+00	0.00E+00	0.00E+00
1110	ALL	483612.5	3717563	NonCancer	0.00E+00	0.00E+00	0.00E+00
1111	ALL	483637.5	3717563	NonCancer	0.00E+00	0.00E+00	0.00E+00
1112	ALL	483937.5	3717563	NonCancer	0.00E+00	0.00E+00	0.00E+00
1113	ALL	483962.5	3717563	NonCancer	0.00E+00	0.00E+00	0.00E+00
1114	ALL	483987.5	3717563	NonCancer	0.00E+00	0.00E+00	0.00E+00
1115	ALL	484012.5	3717563	NonCancer	0.00E+00	0.00E+00	0.00E+00
1116	ALL	484037.5	3717563	NonCancer	0.00E+00	0.00E+00	0.00E+00
1117	ALL	484062.5	3717563	NonCancer	0.00E+00	0.00E+00	0.00E+00
1118	ALL	483412.5	3717588	NonCancer	0.00E+00	0.00E+00	0.00E+00
1119	ALL	483437.5	3717588	NonCancer	0.00E+00	0.00E+00	0.00E+00
1120	ALL	483462.5	3717588	NonCancer	0.00E+00	0.00E+00	0.00E+00
1121	ALL	483487.5	3717588	NonCancer	0.00E+00	0.00E+00	0.00E+00
1122	ALL	483512.5	3717588	NonCancer	0.00E+00	0.00E+00	0.00E+00
1123	ALL	483537.5	3717588	NonCancer	0.00E+00	0.00E+00	0.00E+00
1124	ALL	483562.5	3717588	NonCancer	0.00E+00	0.00E+00	0.00E+00
1125	ALL	483587.5	3717588	NonCancer	0.00E+00	0.00E+00	0.00E+00
1126	ALL	483612.5	3717588	NonCancer	0.00E+00	0.00E+00	0.00E+00
1127	ALL	483637.5	3717588	NonCancer	0.00E+00	0.00E+00	0.00E+00
1128	ALL	484512.5	3717613	NonCancer	0.00E+00	0.00E+00	0.00E+00
1129	ALL	484537.5	3717613	NonCancer	0.00E+00	0.00E+00	0.00E+00
1130	ALL	484562.5	3717613	NonCancer	0.00E+00	0.00E+00	0.00E+00
1131	ALL	484587.5	3717613	NonCancer	0.00E+00	0.00E+00	0.00E+00
1132	ALL	484612.5	3717613	NonCancer	0.00E+00	0.00E+00	0.00E+00
1133	ALL	484637.5	3717613	NonCancer	0.00E+00	0.00E+00	0.00E+00
1134	ALL	484662.5	3717613	NonCancer	0.00E+00	0.00E+00	0.00E+00
1135	ALL	484687.5	3717613	NonCancer	0.00E+00	0.00E+00	0.00E+00
1136	ALL	484712.5	3717613	NonCancer	0.00E+00	0.00E+00	0.00E+00
1137	ALL	484737.5	3717613	NonCancer	0.00E+00	0.00E+00	0.00E+00
1138	ALL	484762.5	3717613	NonCancer	0.00E+00	0.00E+00	0.00E+00
1139	ALL	484787.5	3717613	NonCancer	0.00E+00	0.00E+00	0.00E+00
1140	ALL	484812.5	3717613	NonCancer	0.00E+00	0.00E+00	0.00E+00
1141	ALL	484837.5	3717613	NonCancer	0.00E+00	0.00E+00	0.00E+00
1142	ALL	484862.5	3717613	NonCancer	0.00E+00	0.00E+00	0.00E+00

1143	ALL	484512.5	3717638	NonCancer	0.00E+00	0.00E+00	0.00E+00
1144	ALL	484537.5	3717638	NonCancer	0.00E+00	0.00E+00	0.00E+00
1145	ALL	484562.5	3717638	NonCancer	0.00E+00	0.00E+00	0.00E+00
1146	ALL	484587.5	3717638	NonCancer	0.00E+00	0.00E+00	0.00E+00
1147	ALL	484612.5	3717638	NonCancer	0.00E+00	0.00E+00	0.00E+00
1148	ALL	484637.5	3717638	NonCancer	0.00E+00	0.00E+00	0.00E+00
1149	ALL	484662.5	3717638	NonCancer	0.00E+00	0.00E+00	0.00E+00
1150	ALL	484687.5	3717638	NonCancer	0.00E+00	0.00E+00	0.00E+00
1151	ALL	484712.5	3717638	NonCancer	0.00E+00	0.00E+00	0.00E+00
1152	ALL	484737.5	3717638	NonCancer	0.00E+00	0.00E+00	0.00E+00
1153	ALL	484762.5	3717638	NonCancer	0.00E+00	0.00E+00	0.00E+00
1154	ALL	484787.5	3717638	NonCancer	0.00E+00	0.00E+00	0.00E+00
1155	ALL	484812.5	3717638	NonCancer	0.00E+00	0.00E+00	0.00E+00
1156	ALL	484837.5	3717638	NonCancer	0.00E+00	0.00E+00	0.00E+00
1157	ALL	484862.5	3717638	NonCancer	0.00E+00	0.00E+00	0.00E+00
1158	ALL	484512.5	3717663	NonCancer	0.00E+00	0.00E+00	0.00E+00
1159	ALL	484537.5	3717663	NonCancer	0.00E+00	0.00E+00	0.00E+00
1160	ALL	484562.5	3717663	NonCancer	0.00E+00	0.00E+00	0.00E+00
1161	ALL	484587.5	3717663	NonCancer	0.00E+00	0.00E+00	0.00E+00
1162	ALL	484612.5	3717663	NonCancer	0.00E+00	0.00E+00	0.00E+00
1163	ALL	484637.5	3717663	NonCancer	0.00E+00	0.00E+00	0.00E+00
1164	ALL	484662.5	3717663	NonCancer	0.00E+00	0.00E+00	0.00E+00
1165	ALL	484687.5	3717663	NonCancer	0.00E+00	0.00E+00	0.00E+00
1166	ALL	484712.5	3717663	NonCancer	0.00E+00	0.00E+00	0.00E+00
1167	ALL	484737.5	3717663	NonCancer	0.00E+00	0.00E+00	0.00E+00
1168	ALL	484762.5	3717663	NonCancer	0.00E+00	0.00E+00	0.00E+00
1169	ALL	484787.5	3717663	NonCancer	0.00E+00	0.00E+00	0.00E+00
1170	ALL	484812.5	3717663	NonCancer	0.00E+00	0.00E+00	0.00E+00
1171	ALL	484837.5	3717663	NonCancer	0.00E+00	0.00E+00	0.00E+00
1172	ALL	484862.5	3717663	NonCancer	0.00E+00	0.00E+00	0.00E+00
1173	ALL	484512.5	3717688	NonCancer	0.00E+00	0.00E+00	0.00E+00
1174	ALL	484537.5	3717688	NonCancer	0.00E+00	0.00E+00	0.00E+00
1175	ALL	484562.5	3717688	NonCancer	0.00E+00	0.00E+00	0.00E+00
1176	ALL	484587.5	3717688	NonCancer	0.00E+00	0.00E+00	0.00E+00
1177	ALL	484612.5	3717688	NonCancer	0.00E+00	0.00E+00	0.00E+00
1178	ALL	484637.5	3717688	NonCancer	0.00E+00	0.00E+00	0.00E+00
1179	ALL	484662.5	3717688	NonCancer	0.00E+00	0.00E+00	0.00E+00
1180	ALL	484687.5	3717688	NonCancer	0.00E+00	0.00E+00	0.00E+00
1181	ALL	484712.5	3717688	NonCancer	0.00E+00	0.00E+00	0.00E+00
1182	ALL	484737.5	3717688	NonCancer	0.00E+00	0.00E+00	0.00E+00
1183	ALL	484762.5	3717688	NonCancer	0.00E+00	0.00E+00	0.00E+00
1184	ALL	484787.5	3717688	NonCancer	0.00E+00	0.00E+00	0.00E+00
1185	ALL	484812.5	3717688	NonCancer	0.00E+00	0.00E+00	0.00E+00
1186	ALL	484837.5	3717688	NonCancer	0.00E+00	0.00E+00	0.00E+00

1187	ALL	484862.5	3717688	NonCancer	0.00E+00	0.00E+00	0.00E+00
1188	ALL	484512.5	3717713	NonCancer	0.00E+00	0.00E+00	0.00E+00
1189	ALL	484537.5	3717713	NonCancer	0.00E+00	0.00E+00	0.00E+00
1190	ALL	484562.5	3717713	NonCancer	0.00E+00	0.00E+00	0.00E+00
1191	ALL	484587.5	3717713	NonCancer	0.00E+00	0.00E+00	0.00E+00
1192	ALL	484612.5	3717713	NonCancer	0.00E+00	0.00E+00	0.00E+00
1193	ALL	484637.5	3717713	NonCancer	0.00E+00	0.00E+00	0.00E+00
1194	ALL	484662.5	3717713	NonCancer	0.00E+00	0.00E+00	0.00E+00
1195	ALL	484687.5	3717713	NonCancer	0.00E+00	0.00E+00	0.00E+00
1196	ALL	484712.5	3717713	NonCancer	0.00E+00	0.00E+00	0.00E+00
1197	ALL	484737.5	3717713	NonCancer	0.00E+00	0.00E+00	0.00E+00
1198	ALL	484762.5	3717713	NonCancer	0.00E+00	0.00E+00	0.00E+00
1199	ALL	484787.5	3717713	NonCancer	0.00E+00	0.00E+00	0.00E+00
1200	ALL	484812.5	3717713	NonCancer	0.00E+00	0.00E+00	0.00E+00
1201	ALL	484837.5	3717713	NonCancer	0.00E+00	0.00E+00	0.00E+00
1202	ALL	484862.5	3717713	NonCancer	0.00E+00	0.00E+00	0.00E+00
1203	ALL	484512.5	3717738	NonCancer	0.00E+00	0.00E+00	0.00E+00
1204	ALL	484537.5	3717738	NonCancer	0.00E+00	0.00E+00	0.00E+00
1205	ALL	484562.5	3717738	NonCancer	0.00E+00	0.00E+00	0.00E+00
1206	ALL	484587.5	3717738	NonCancer	0.00E+00	0.00E+00	0.00E+00
1207	ALL	484612.5	3717738	NonCancer	0.00E+00	0.00E+00	0.00E+00
1208	ALL	484637.5	3717738	NonCancer	0.00E+00	0.00E+00	0.00E+00
1209	ALL	484662.5	3717738	NonCancer	0.00E+00	0.00E+00	0.00E+00
1210	ALL	484687.5	3717738	NonCancer	0.00E+00	0.00E+00	0.00E+00
1211	ALL	484712.5	3717738	NonCancer	0.00E+00	0.00E+00	0.00E+00
1212	ALL	484737.5	3717738	NonCancer	0.00E+00	0.00E+00	0.00E+00
1213	ALL	484762.5	3717738	NonCancer	0.00E+00	0.00E+00	0.00E+00
1214	ALL	484787.5	3717738	NonCancer	0.00E+00	0.00E+00	0.00E+00
1215	ALL	484812.5	3717738	NonCancer	0.00E+00	0.00E+00	0.00E+00
1216	ALL	484837.5	3717738	NonCancer	0.00E+00	0.00E+00	0.00E+00
1217	ALL	484862.5	3717738	NonCancer	0.00E+00	0.00E+00	0.00E+00
1218	ALL	484512.5	3717763	NonCancer	0.00E+00	0.00E+00	0.00E+00
1219	ALL	484537.5	3717763	NonCancer	0.00E+00	0.00E+00	0.00E+00
1220	ALL	484562.5	3717763	NonCancer	0.00E+00	0.00E+00	0.00E+00
1221	ALL	484587.5	3717763	NonCancer	0.00E+00	0.00E+00	0.00E+00
1222	ALL	484612.5	3717763	NonCancer	0.00E+00	0.00E+00	0.00E+00
1223	ALL	484637.5	3717763	NonCancer	0.00E+00	0.00E+00	0.00E+00
1224	ALL	484662.5	3717763	NonCancer	0.00E+00	0.00E+00	0.00E+00
1225	ALL	484687.5	3717763	NonCancer	0.00E+00	0.00E+00	0.00E+00
1226	ALL	484712.5	3717763	NonCancer	0.00E+00	0.00E+00	0.00E+00
1227	ALL	484737.5	3717763	NonCancer	0.00E+00	0.00E+00	0.00E+00
1228	ALL	484762.5	3717763	NonCancer	0.00E+00	0.00E+00	0.00E+00
1229	ALL	484787.5	3717763	NonCancer	0.00E+00	0.00E+00	0.00E+00
1230	ALL	484812.5	3717763	NonCancer	0.00E+00	0.00E+00	0.00E+00

1231	ALL	484837.5	3717763	NonCancer	0.00E+00	0.00E+00	0.00E+00
1232	ALL	484862.5	3717763	NonCancer	0.00E+00	0.00E+00	0.00E+00
1233	ALL	484512.5	3717788	NonCancer	0.00E+00	0.00E+00	0.00E+00
1234	ALL	484537.5	3717788	NonCancer	0.00E+00	0.00E+00	0.00E+00
1235	ALL	484562.5	3717788	NonCancer	0.00E+00	0.00E+00	0.00E+00
1236	ALL	484587.5	3717788	NonCancer	0.00E+00	0.00E+00	0.00E+00
1237	ALL	484612.5	3717788	NonCancer	0.00E+00	0.00E+00	0.00E+00
1238	ALL	484637.5	3717788	NonCancer	0.00E+00	0.00E+00	0.00E+00
1239	ALL	484662.5	3717788	NonCancer	0.00E+00	0.00E+00	0.00E+00
1240	ALL	484687.5	3717788	NonCancer	0.00E+00	0.00E+00	0.00E+00
1241	ALL	484712.5	3717788	NonCancer	0.00E+00	0.00E+00	0.00E+00
1242	ALL	484737.5	3717788	NonCancer	0.00E+00	0.00E+00	0.00E+00
1243	ALL	484762.5	3717788	NonCancer	0.00E+00	0.00E+00	0.00E+00
1244	ALL	484787.5	3717788	NonCancer	0.00E+00	0.00E+00	0.00E+00
1245	ALL	484812.5	3717788	NonCancer	0.00E+00	0.00E+00	0.00E+00
1246	ALL	484837.5	3717788	NonCancer	0.00E+00	0.00E+00	0.00E+00
1247	ALL	484862.5	3717788	NonCancer	0.00E+00	0.00E+00	0.00E+00
1248	ALL	483412.5	3717813	NonCancer	0.00E+00	0.00E+00	0.00E+00
1249	ALL	483437.5	3717813	NonCancer	0.00E+00	0.00E+00	0.00E+00
1250	ALL	483462.5	3717813	NonCancer	0.00E+00	0.00E+00	0.00E+00
1251	ALL	483487.5	3717813	NonCancer	0.00E+00	0.00E+00	0.00E+00
1252	ALL	484512.5	3717813	NonCancer	0.00E+00	0.00E+00	0.00E+00
1253	ALL	484537.5	3717813	NonCancer	0.00E+00	0.00E+00	0.00E+00
1254	ALL	484562.5	3717813	NonCancer	0.00E+00	0.00E+00	0.00E+00
1255	ALL	484587.5	3717813	NonCancer	0.00E+00	0.00E+00	0.00E+00
1256	ALL	484612.5	3717813	NonCancer	0.00E+00	0.00E+00	0.00E+00
1257	ALL	484637.5	3717813	NonCancer	0.00E+00	0.00E+00	0.00E+00
1258	ALL	484662.5	3717813	NonCancer	0.00E+00	0.00E+00	0.00E+00
1259	ALL	484687.5	3717813	NonCancer	0.00E+00	0.00E+00	0.00E+00
1260	ALL	484712.5	3717813	NonCancer	0.00E+00	0.00E+00	0.00E+00
1261	ALL	484737.5	3717813	NonCancer	0.00E+00	0.00E+00	0.00E+00
1262	ALL	484762.5	3717813	NonCancer	0.00E+00	0.00E+00	0.00E+00
1263	ALL	484787.5	3717813	NonCancer	0.00E+00	0.00E+00	0.00E+00
1264	ALL	484812.5	3717813	NonCancer	0.00E+00	0.00E+00	0.00E+00
1265	ALL	484837.5	3717813	NonCancer	0.00E+00	0.00E+00	0.00E+00
1266	ALL	484862.5	3717813	NonCancer	0.00E+00	0.00E+00	0.00E+00
1267	ALL	483412.5	3717838	NonCancer	0.00E+00	0.00E+00	0.00E+00
1268	ALL	483437.5	3717838	NonCancer	0.00E+00	0.00E+00	0.00E+00
1269	ALL	483462.5	3717838	NonCancer	0.00E+00	0.00E+00	0.00E+00
1270	ALL	483487.5	3717838	NonCancer	0.00E+00	0.00E+00	0.00E+00
1271	ALL	483512.5	3717838	NonCancer	0.00E+00	0.00E+00	0.00E+00
1272	ALL	484512.5	3717838	NonCancer	0.00E+00	0.00E+00	0.00E+00
1273	ALL	484537.5	3717838	NonCancer	0.00E+00	0.00E+00	0.00E+00
1274	ALL	484562.5	3717838	NonCancer	0.00E+00	0.00E+00	0.00E+00

1275	ALL	484587.5	3717838	NonCancer	0.00E+00	0.00E+00	0.00E+00
1276	ALL	484612.5	3717838	NonCancer	0.00E+00	0.00E+00	0.00E+00
1277	ALL	484637.5	3717838	NonCancer	0.00E+00	0.00E+00	0.00E+00
1278	ALL	484662.5	3717838	NonCancer	0.00E+00	0.00E+00	0.00E+00
1279	ALL	484687.5	3717838	NonCancer	0.00E+00	0.00E+00	0.00E+00
1280	ALL	484712.5	3717838	NonCancer	0.00E+00	0.00E+00	0.00E+00
1281	ALL	484737.5	3717838	NonCancer	0.00E+00	0.00E+00	0.00E+00
1282	ALL	484762.5	3717838	NonCancer	0.00E+00	0.00E+00	0.00E+00
1283	ALL	484787.5	3717838	NonCancer	0.00E+00	0.00E+00	0.00E+00
1284	ALL	484812.5	3717838	NonCancer	0.00E+00	0.00E+00	0.00E+00
1285	ALL	484837.5	3717838	NonCancer	0.00E+00	0.00E+00	0.00E+00
1286	ALL	484862.5	3717838	NonCancer	0.00E+00	0.00E+00	0.00E+00
1287	ALL	483412.5	3717863	NonCancer	0.00E+00	0.00E+00	0.00E+00
1288	ALL	483437.5	3717863	NonCancer	0.00E+00	0.00E+00	0.00E+00
1289	ALL	483462.5	3717863	NonCancer	0.00E+00	0.00E+00	0.00E+00
1290	ALL	483487.5	3717863	NonCancer	0.00E+00	0.00E+00	0.00E+00
1291	ALL	483512.5	3717863	NonCancer	0.00E+00	0.00E+00	0.00E+00
1292	ALL	484512.5	3717863	NonCancer	0.00E+00	0.00E+00	0.00E+00
1293	ALL	484537.5	3717863	NonCancer	0.00E+00	0.00E+00	0.00E+00
1294	ALL	484562.5	3717863	NonCancer	0.00E+00	0.00E+00	0.00E+00
1295	ALL	484587.5	3717863	NonCancer	0.00E+00	0.00E+00	0.00E+00
1296	ALL	484612.5	3717863	NonCancer	0.00E+00	0.00E+00	0.00E+00
1297	ALL	484637.5	3717863	NonCancer	0.00E+00	0.00E+00	0.00E+00
1298	ALL	484662.5	3717863	NonCancer	0.00E+00	0.00E+00	0.00E+00
1299	ALL	484687.5	3717863	NonCancer	0.00E+00	0.00E+00	0.00E+00
1300	ALL	484712.5	3717863	NonCancer	0.00E+00	0.00E+00	0.00E+00
1301	ALL	484737.5	3717863	NonCancer	0.00E+00	0.00E+00	0.00E+00
1302	ALL	484762.5	3717863	NonCancer	0.00E+00	0.00E+00	0.00E+00
1303	ALL	484787.5	3717863	NonCancer	0.00E+00	0.00E+00	0.00E+00
1304	ALL	484812.5	3717863	NonCancer	0.00E+00	0.00E+00	0.00E+00
1305	ALL	484837.5	3717863	NonCancer	0.00E+00	0.00E+00	0.00E+00
1306	ALL	484862.5	3717863	NonCancer	0.00E+00	0.00E+00	0.00E+00
1307	ALL	483412.5	3717888	NonCancer	0.00E+00	0.00E+00	0.00E+00
1308	ALL	483437.5	3717888	NonCancer	0.00E+00	0.00E+00	0.00E+00
1309	ALL	483462.5	3717888	NonCancer	0.00E+00	0.00E+00	0.00E+00
1310	ALL	483487.5	3717888	NonCancer	0.00E+00	0.00E+00	0.00E+00
1311	ALL	483512.5	3717888	NonCancer	0.00E+00	0.00E+00	0.00E+00
1312	ALL	483537.5	3717888	NonCancer	0.00E+00	0.00E+00	0.00E+00
1313	ALL	484512.5	3717888	NonCancer	0.00E+00	0.00E+00	0.00E+00
1314	ALL	484537.5	3717888	NonCancer	0.00E+00	0.00E+00	0.00E+00
1315	ALL	484562.5	3717888	NonCancer	0.00E+00	0.00E+00	0.00E+00
1316	ALL	484587.5	3717888	NonCancer	0.00E+00	0.00E+00	0.00E+00
1317	ALL	484612.5	3717888	NonCancer	0.00E+00	0.00E+00	0.00E+00
1318	ALL	484637.5	3717888	NonCancer	0.00E+00	0.00E+00	0.00E+00

1319	ALL	484662.5	3717888	NonCancer	0.00E+00	0.00E+00	0.00E+00
1320	ALL	484687.5	3717888	NonCancer	0.00E+00	0.00E+00	0.00E+00
1321	ALL	484712.5	3717888	NonCancer	0.00E+00	0.00E+00	0.00E+00
1322	ALL	484737.5	3717888	NonCancer	0.00E+00	0.00E+00	0.00E+00
1323	ALL	484762.5	3717888	NonCancer	0.00E+00	0.00E+00	0.00E+00
1324	ALL	484787.5	3717888	NonCancer	0.00E+00	0.00E+00	0.00E+00
1325	ALL	484812.5	3717888	NonCancer	0.00E+00	0.00E+00	0.00E+00
1326	ALL	484837.5	3717888	NonCancer	0.00E+00	0.00E+00	0.00E+00
1327	ALL	484862.5	3717888	NonCancer	0.00E+00	0.00E+00	0.00E+00
1328	ALL	483412.5	3717913	NonCancer	0.00E+00	0.00E+00	0.00E+00
1329	ALL	483437.5	3717913	NonCancer	0.00E+00	0.00E+00	0.00E+00
1330	ALL	483462.5	3717913	NonCancer	0.00E+00	0.00E+00	0.00E+00
1331	ALL	483487.5	3717913	NonCancer	0.00E+00	0.00E+00	0.00E+00
1332	ALL	483512.5	3717913	NonCancer	0.00E+00	0.00E+00	0.00E+00
1333	ALL	483537.5	3717913	NonCancer	0.00E+00	0.00E+00	0.00E+00
1334	ALL	483562.5	3717913	NonCancer	0.00E+00	0.00E+00	0.00E+00
1335	ALL	484512.5	3717913	NonCancer	0.00E+00	0.00E+00	0.00E+00
1336	ALL	484537.5	3717913	NonCancer	0.00E+00	0.00E+00	0.00E+00
1337	ALL	484562.5	3717913	NonCancer	0.00E+00	0.00E+00	0.00E+00
1338	ALL	484587.5	3717913	NonCancer	0.00E+00	0.00E+00	0.00E+00
1339	ALL	484612.5	3717913	NonCancer	0.00E+00	0.00E+00	0.00E+00
1340	ALL	484637.5	3717913	NonCancer	0.00E+00	0.00E+00	0.00E+00
1341	ALL	484662.5	3717913	NonCancer	0.00E+00	0.00E+00	0.00E+00
1342	ALL	484687.5	3717913	NonCancer	0.00E+00	0.00E+00	0.00E+00
1343	ALL	484712.5	3717913	NonCancer	0.00E+00	0.00E+00	0.00E+00
1344	ALL	484737.5	3717913	NonCancer	0.00E+00	0.00E+00	0.00E+00
1345	ALL	484762.5	3717913	NonCancer	0.00E+00	0.00E+00	0.00E+00
1346	ALL	484787.5	3717913	NonCancer	0.00E+00	0.00E+00	0.00E+00
1347	ALL	484812.5	3717913	NonCancer	0.00E+00	0.00E+00	0.00E+00
1348	ALL	484837.5	3717913	NonCancer	0.00E+00	0.00E+00	0.00E+00
1349	ALL	484862.5	3717913	NonCancer	0.00E+00	0.00E+00	0.00E+00
1350	ALL	483412.5	3717938	NonCancer	0.00E+00	0.00E+00	0.00E+00
1351	ALL	483437.5	3717938	NonCancer	0.00E+00	0.00E+00	0.00E+00
1352	ALL	483462.5	3717938	NonCancer	0.00E+00	0.00E+00	0.00E+00
1353	ALL	483487.5	3717938	NonCancer	0.00E+00	0.00E+00	0.00E+00
1354	ALL	483512.5	3717938	NonCancer	0.00E+00	0.00E+00	0.00E+00
1355	ALL	483537.5	3717938	NonCancer	0.00E+00	0.00E+00	0.00E+00
1356	ALL	483562.5	3717938	NonCancer	0.00E+00	0.00E+00	0.00E+00
1357	ALL	483587.5	3717938	NonCancer	0.00E+00	0.00E+00	0.00E+00
1358	ALL	484512.5	3717938	NonCancer	0.00E+00	0.00E+00	0.00E+00
1359	ALL	484537.5	3717938	NonCancer	0.00E+00	0.00E+00	0.00E+00
1360	ALL	484562.5	3717938	NonCancer	0.00E+00	0.00E+00	0.00E+00
1361	ALL	484587.5	3717938	NonCancer	0.00E+00	0.00E+00	0.00E+00
1362	ALL	484612.5	3717938	NonCancer	0.00E+00	0.00E+00	0.00E+00

1363	ALL	484637.5	3717938	NonCancer	0.00E+00	0.00E+00	0.00E+00
1364	ALL	484662.5	3717938	NonCancer	0.00E+00	0.00E+00	0.00E+00
1365	ALL	484687.5	3717938	NonCancer	0.00E+00	0.00E+00	0.00E+00
1366	ALL	484712.5	3717938	NonCancer	0.00E+00	0.00E+00	0.00E+00
1367	ALL	484737.5	3717938	NonCancer	0.00E+00	0.00E+00	0.00E+00
1368	ALL	484762.5	3717938	NonCancer	0.00E+00	0.00E+00	0.00E+00
1369	ALL	484787.5	3717938	NonCancer	0.00E+00	0.00E+00	0.00E+00
1370	ALL	484812.5	3717938	NonCancer	0.00E+00	0.00E+00	0.00E+00
1371	ALL	484837.5	3717938	NonCancer	0.00E+00	0.00E+00	0.00E+00
1372	ALL	484862.5	3717938	NonCancer	0.00E+00	0.00E+00	0.00E+00
1373	ALL	483412.5	3717963	NonCancer	0.00E+00	0.00E+00	0.00E+00
1374	ALL	483437.5	3717963	NonCancer	0.00E+00	0.00E+00	0.00E+00
1375	ALL	483462.5	3717963	NonCancer	0.00E+00	0.00E+00	0.00E+00
1376	ALL	483487.5	3717963	NonCancer	0.00E+00	0.00E+00	0.00E+00
1377	ALL	483512.5	3717963	NonCancer	0.00E+00	0.00E+00	0.00E+00
1378	ALL	483537.5	3717963	NonCancer	0.00E+00	0.00E+00	0.00E+00
1379	ALL	483562.5	3717963	NonCancer	0.00E+00	0.00E+00	0.00E+00
1380	ALL	483587.5	3717963	NonCancer	0.00E+00	0.00E+00	0.00E+00
1381	ALL	483612.5	3717963	NonCancer	0.00E+00	0.00E+00	0.00E+00
1382	ALL	484512.5	3717963	NonCancer	0.00E+00	0.00E+00	0.00E+00
1383	ALL	484537.5	3717963	NonCancer	0.00E+00	0.00E+00	0.00E+00
1384	ALL	484562.5	3717963	NonCancer	0.00E+00	0.00E+00	0.00E+00
1385	ALL	484587.5	3717963	NonCancer	0.00E+00	0.00E+00	0.00E+00
1386	ALL	484612.5	3717963	NonCancer	0.00E+00	0.00E+00	0.00E+00
1387	ALL	484637.5	3717963	NonCancer	0.00E+00	0.00E+00	0.00E+00
1388	ALL	484662.5	3717963	NonCancer	0.00E+00	0.00E+00	0.00E+00
1389	ALL	484687.5	3717963	NonCancer	0.00E+00	0.00E+00	0.00E+00
1390	ALL	484712.5	3717963	NonCancer	0.00E+00	0.00E+00	0.00E+00
1391	ALL	484737.5	3717963	NonCancer	0.00E+00	0.00E+00	0.00E+00
1392	ALL	484762.5	3717963	NonCancer	0.00E+00	0.00E+00	0.00E+00
1393	ALL	484787.5	3717963	NonCancer	0.00E+00	0.00E+00	0.00E+00
1394	ALL	484812.5	3717963	NonCancer	0.00E+00	0.00E+00	0.00E+00
1395	ALL	484837.5	3717963	NonCancer	0.00E+00	0.00E+00	0.00E+00
1396	ALL	484862.5	3717963	NonCancer	0.00E+00	0.00E+00	0.00E+00
1397	ALL	483412.5	3717988	NonCancer	0.00E+00	0.00E+00	0.00E+00
1398	ALL	483437.5	3717988	NonCancer	0.00E+00	0.00E+00	0.00E+00
1399	ALL	483462.5	3717988	NonCancer	0.00E+00	0.00E+00	0.00E+00
1400	ALL	483487.5	3717988	NonCancer	0.00E+00	0.00E+00	0.00E+00
1401	ALL	483512.5	3717988	NonCancer	0.00E+00	0.00E+00	0.00E+00
1402	ALL	483537.5	3717988	NonCancer	0.00E+00	0.00E+00	0.00E+00
1403	ALL	483562.5	3717988	NonCancer	0.00E+00	0.00E+00	0.00E+00
1404	ALL	483587.5	3717988	NonCancer	0.00E+00	0.00E+00	0.00E+00
1405	ALL	483612.5	3717988	NonCancer	0.00E+00	0.00E+00	0.00E+00
1406	ALL	484512.5	3717988	NonCancer	0.00E+00	0.00E+00	0.00E+00

1407	ALL	484537.5	3717988	NonCancer	0.00E+00	0.00E+00	0.00E+00
1408	ALL	484562.5	3717988	NonCancer	0.00E+00	0.00E+00	0.00E+00
1409	ALL	484587.5	3717988	NonCancer	0.00E+00	0.00E+00	0.00E+00
1410	ALL	484612.5	3717988	NonCancer	0.00E+00	0.00E+00	0.00E+00
1411	ALL	484637.5	3717988	NonCancer	0.00E+00	0.00E+00	0.00E+00
1412	ALL	484662.5	3717988	NonCancer	0.00E+00	0.00E+00	0.00E+00
1413	ALL	484687.5	3717988	NonCancer	0.00E+00	0.00E+00	0.00E+00
1414	ALL	484712.5	3717988	NonCancer	0.00E+00	0.00E+00	0.00E+00
1415	ALL	484737.5	3717988	NonCancer	0.00E+00	0.00E+00	0.00E+00
1416	ALL	484762.5	3717988	NonCancer	0.00E+00	0.00E+00	0.00E+00
1417	ALL	484787.5	3717988	NonCancer	0.00E+00	0.00E+00	0.00E+00
1418	ALL	484812.5	3717988	NonCancer	0.00E+00	0.00E+00	0.00E+00
1419	ALL	484837.5	3717988	NonCancer	0.00E+00	0.00E+00	0.00E+00
1420	ALL	484862.5	3717988	NonCancer	0.00E+00	0.00E+00	0.00E+00
1421	ALL	483412.5	3718013	NonCancer	0.00E+00	0.00E+00	0.00E+00
1422	ALL	483437.5	3718013	NonCancer	0.00E+00	0.00E+00	0.00E+00
1423	ALL	483462.5	3718013	NonCancer	0.00E+00	0.00E+00	0.00E+00
1424	ALL	483487.5	3718013	NonCancer	0.00E+00	0.00E+00	0.00E+00
1425	ALL	483512.5	3718013	NonCancer	0.00E+00	0.00E+00	0.00E+00
1426	ALL	483537.5	3718013	NonCancer	0.00E+00	0.00E+00	0.00E+00
1427	ALL	483562.5	3718013	NonCancer	0.00E+00	0.00E+00	0.00E+00
1428	ALL	483587.5	3718013	NonCancer	0.00E+00	0.00E+00	0.00E+00
1429	ALL	483612.5	3718013	NonCancer	0.00E+00	0.00E+00	0.00E+00
1430	ALL	483637.5	3718013	NonCancer	0.00E+00	0.00E+00	0.00E+00
1431	ALL	484512.5	3718013	NonCancer	0.00E+00	0.00E+00	0.00E+00
1432	ALL	484537.5	3718013	NonCancer	0.00E+00	0.00E+00	0.00E+00
1433	ALL	484562.5	3718013	NonCancer	0.00E+00	0.00E+00	0.00E+00
1434	ALL	484587.5	3718013	NonCancer	0.00E+00	0.00E+00	0.00E+00
1435	ALL	484612.5	3718013	NonCancer	0.00E+00	0.00E+00	0.00E+00
1436	ALL	484637.5	3718013	NonCancer	0.00E+00	0.00E+00	0.00E+00
1437	ALL	484662.5	3718013	NonCancer	0.00E+00	0.00E+00	0.00E+00
1438	ALL	484687.5	3718013	NonCancer	0.00E+00	0.00E+00	0.00E+00
1439	ALL	484712.5	3718013	NonCancer	0.00E+00	0.00E+00	0.00E+00
1440	ALL	484737.5	3718013	NonCancer	0.00E+00	0.00E+00	0.00E+00
1441	ALL	484762.5	3718013	NonCancer	0.00E+00	0.00E+00	0.00E+00
1442	ALL	484787.5	3718013	NonCancer	0.00E+00	0.00E+00	0.00E+00
1443	ALL	484812.5	3718013	NonCancer	0.00E+00	0.00E+00	0.00E+00
1444	ALL	484837.5	3718013	NonCancer	0.00E+00	0.00E+00	0.00E+00
1445	ALL	484862.5	3718013	NonCancer	0.00E+00	0.00E+00	0.00E+00
1446	ALL	483412.5	3718038	NonCancer	0.00E+00	0.00E+00	0.00E+00
1447	ALL	483437.5	3718038	NonCancer	0.00E+00	0.00E+00	0.00E+00
1448	ALL	483462.5	3718038	NonCancer	0.00E+00	0.00E+00	0.00E+00
1449	ALL	483487.5	3718038	NonCancer	0.00E+00	0.00E+00	0.00E+00
1450	ALL	483512.5	3718038	NonCancer	0.00E+00	0.00E+00	0.00E+00

1451	ALL	483537.5	3718038	NonCancer	0.00E+00	0.00E+00	0.00E+00
1452	ALL	483562.5	3718038	NonCancer	0.00E+00	0.00E+00	0.00E+00
1453	ALL	483587.5	3718038	NonCancer	0.00E+00	0.00E+00	0.00E+00
1454	ALL	483612.5	3718038	NonCancer	0.00E+00	0.00E+00	0.00E+00
1455	ALL	483637.5	3718038	NonCancer	0.00E+00	0.00E+00	0.00E+00
1456	ALL	483662.5	3718038	NonCancer	0.00E+00	0.00E+00	0.00E+00
1457	ALL	484512.5	3718038	NonCancer	0.00E+00	0.00E+00	0.00E+00
1458	ALL	484537.5	3718038	NonCancer	0.00E+00	0.00E+00	0.00E+00
1459	ALL	484562.5	3718038	NonCancer	0.00E+00	0.00E+00	0.00E+00
1460	ALL	484587.5	3718038	NonCancer	0.00E+00	0.00E+00	0.00E+00
1461	ALL	484612.5	3718038	NonCancer	0.00E+00	0.00E+00	0.00E+00
1462	ALL	484637.5	3718038	NonCancer	0.00E+00	0.00E+00	0.00E+00
1463	ALL	484662.5	3718038	NonCancer	0.00E+00	0.00E+00	0.00E+00
1464	ALL	484687.5	3718038	NonCancer	0.00E+00	0.00E+00	0.00E+00
1465	ALL	484712.5	3718038	NonCancer	0.00E+00	0.00E+00	0.00E+00
1466	ALL	484737.5	3718038	NonCancer	0.00E+00	0.00E+00	0.00E+00
1467	ALL	484762.5	3718038	NonCancer	0.00E+00	0.00E+00	0.00E+00
1468	ALL	484787.5	3718038	NonCancer	0.00E+00	0.00E+00	0.00E+00
1469	ALL	484812.5	3718038	NonCancer	0.00E+00	0.00E+00	0.00E+00
1470	ALL	484837.5	3718038	NonCancer	0.00E+00	0.00E+00	0.00E+00
1471	ALL	484862.5	3718038	NonCancer	0.00E+00	0.00E+00	0.00E+00
1472	ALL	483412.5	3718063	NonCancer	0.00E+00	0.00E+00	0.00E+00
1473	ALL	483437.5	3718063	NonCancer	0.00E+00	0.00E+00	0.00E+00
1474	ALL	483462.5	3718063	NonCancer	0.00E+00	0.00E+00	0.00E+00
1475	ALL	483487.5	3718063	NonCancer	0.00E+00	0.00E+00	0.00E+00
1476	ALL	483512.5	3718063	NonCancer	0.00E+00	0.00E+00	0.00E+00
1477	ALL	483537.5	3718063	NonCancer	0.00E+00	0.00E+00	0.00E+00
1478	ALL	483562.5	3718063	NonCancer	0.00E+00	0.00E+00	0.00E+00
1479	ALL	483587.5	3718063	NonCancer	0.00E+00	0.00E+00	0.00E+00
1480	ALL	483612.5	3718063	NonCancer	0.00E+00	0.00E+00	0.00E+00
1481	ALL	483637.5	3718063	NonCancer	0.00E+00	0.00E+00	0.00E+00
1482	ALL	483662.5	3718063	NonCancer	0.00E+00	0.00E+00	0.00E+00
1483	ALL	484512.5	3718063	NonCancer	0.00E+00	0.00E+00	0.00E+00
1484	ALL	484537.5	3718063	NonCancer	0.00E+00	0.00E+00	0.00E+00
1485	ALL	484562.5	3718063	NonCancer	0.00E+00	0.00E+00	0.00E+00
1486	ALL	484587.5	3718063	NonCancer	0.00E+00	0.00E+00	0.00E+00
1487	ALL	484612.5	3718063	NonCancer	0.00E+00	0.00E+00	0.00E+00
1488	ALL	484637.5	3718063	NonCancer	0.00E+00	0.00E+00	0.00E+00
1489	ALL	484662.5	3718063	NonCancer	0.00E+00	0.00E+00	0.00E+00
1490	ALL	484687.5	3718063	NonCancer	0.00E+00	0.00E+00	0.00E+00
1491	ALL	483412.5	3718088	NonCancer	0.00E+00	0.00E+00	0.00E+00
1492	ALL	483437.5	3718088	NonCancer	0.00E+00	0.00E+00	0.00E+00
1493	ALL	483462.5	3718088	NonCancer	0.00E+00	0.00E+00	0.00E+00
1494	ALL	483487.5	3718088	NonCancer	0.00E+00	0.00E+00	0.00E+00

1495	ALL	483512.5	3718088	NonCancer	0.00E+00	0.00E+00	0.00E+00
1496	ALL	483537.5	3718088	NonCancer	0.00E+00	0.00E+00	0.00E+00
1497	ALL	483562.5	3718088	NonCancer	0.00E+00	0.00E+00	0.00E+00
1498	ALL	483587.5	3718088	NonCancer	0.00E+00	0.00E+00	0.00E+00
1499	ALL	483612.5	3718088	NonCancer	0.00E+00	0.00E+00	0.00E+00
1500	ALL	483637.5	3718088	NonCancer	0.00E+00	0.00E+00	0.00E+00
1501	ALL	483662.5	3718088	NonCancer	0.00E+00	0.00E+00	0.00E+00
1502	ALL	484512.5	3718088	NonCancer	0.00E+00	0.00E+00	0.00E+00
1503	ALL	484537.5	3718088	NonCancer	0.00E+00	0.00E+00	0.00E+00
1504	ALL	484562.5	3718088	NonCancer	0.00E+00	0.00E+00	0.00E+00
1505	ALL	484587.5	3718088	NonCancer	0.00E+00	0.00E+00	0.00E+00
1506	ALL	484612.5	3718088	NonCancer	0.00E+00	0.00E+00	0.00E+00
1507	ALL	484637.5	3718088	NonCancer	0.00E+00	0.00E+00	0.00E+00
1508	ALL	484662.5	3718088	NonCancer	0.00E+00	0.00E+00	0.00E+00
1509	ALL	484687.5	3718088	NonCancer	0.00E+00	0.00E+00	0.00E+00
1510	ALL	483412.5	3718113	NonCancer	0.00E+00	0.00E+00	0.00E+00
1511	ALL	483437.5	3718113	NonCancer	0.00E+00	0.00E+00	0.00E+00
1512	ALL	483462.5	3718113	NonCancer	0.00E+00	0.00E+00	0.00E+00
1513	ALL	483487.5	3718113	NonCancer	0.00E+00	0.00E+00	0.00E+00
1514	ALL	483512.5	3718113	NonCancer	0.00E+00	0.00E+00	0.00E+00
1515	ALL	483537.5	3718113	NonCancer	0.00E+00	0.00E+00	0.00E+00
1516	ALL	483562.5	3718113	NonCancer	0.00E+00	0.00E+00	0.00E+00
1517	ALL	483587.5	3718113	NonCancer	0.00E+00	0.00E+00	0.00E+00
1518	ALL	483612.5	3718113	NonCancer	0.00E+00	0.00E+00	0.00E+00
1519	ALL	483637.5	3718113	NonCancer	0.00E+00	0.00E+00	0.00E+00
1520	ALL	483662.5	3718113	NonCancer	0.00E+00	0.00E+00	0.00E+00
1521	ALL	483687.5	3718113	NonCancer	0.00E+00	0.00E+00	0.00E+00
1522	ALL	484512.5	3718113	NonCancer	0.00E+00	0.00E+00	0.00E+00
1523	ALL	484537.5	3718113	NonCancer	0.00E+00	0.00E+00	0.00E+00
1524	ALL	484562.5	3718113	NonCancer	0.00E+00	0.00E+00	0.00E+00
1525	ALL	484587.5	3718113	NonCancer	0.00E+00	0.00E+00	0.00E+00
1526	ALL	484612.5	3718113	NonCancer	0.00E+00	0.00E+00	0.00E+00
1527	ALL	484637.5	3718113	NonCancer	0.00E+00	0.00E+00	0.00E+00
1528	ALL	484662.5	3718113	NonCancer	0.00E+00	0.00E+00	0.00E+00
1529	ALL	484687.5	3718113	NonCancer	0.00E+00	0.00E+00	0.00E+00
1530	ALL	483412.5	3718138	NonCancer	0.00E+00	0.00E+00	0.00E+00
1531	ALL	483437.5	3718138	NonCancer	0.00E+00	0.00E+00	0.00E+00
1532	ALL	483462.5	3718138	NonCancer	0.00E+00	0.00E+00	0.00E+00
1533	ALL	483487.5	3718138	NonCancer	0.00E+00	0.00E+00	0.00E+00
1534	ALL	483512.5	3718138	NonCancer	0.00E+00	0.00E+00	0.00E+00
1535	ALL	483537.5	3718138	NonCancer	0.00E+00	0.00E+00	0.00E+00
1536	ALL	483562.5	3718138	NonCancer	0.00E+00	0.00E+00	0.00E+00
1537	ALL	483587.5	3718138	NonCancer	0.00E+00	0.00E+00	0.00E+00
1538	ALL	483612.5	3718138	NonCancer	0.00E+00	0.00E+00	0.00E+00

1539	ALL	483637.5	3718138	NonCancer	0.00E+00	0.00E+00	0.00E+00
1540	ALL	483662.5	3718138	NonCancer	0.00E+00	0.00E+00	0.00E+00
1541	ALL	483687.5	3718138	NonCancer	0.00E+00	0.00E+00	0.00E+00
1542	ALL	484512.5	3718138	NonCancer	0.00E+00	0.00E+00	0.00E+00
1543	ALL	484537.5	3718138	NonCancer	0.00E+00	0.00E+00	0.00E+00
1544	ALL	484562.5	3718138	NonCancer	0.00E+00	0.00E+00	0.00E+00
1545	ALL	484587.5	3718138	NonCancer	0.00E+00	0.00E+00	0.00E+00
1546	ALL	484612.5	3718138	NonCancer	0.00E+00	0.00E+00	0.00E+00
1547	ALL	484637.5	3718138	NonCancer	0.00E+00	0.00E+00	0.00E+00
1548	ALL	484662.5	3718138	NonCancer	0.00E+00	0.00E+00	0.00E+00
1549	ALL	484687.5	3718138	NonCancer	0.00E+00	0.00E+00	0.00E+00
1550	ALL	483412.5	3718163	NonCancer	0.00E+00	0.00E+00	0.00E+00
1551	ALL	483437.5	3718163	NonCancer	0.00E+00	0.00E+00	0.00E+00
1552	ALL	483462.5	3718163	NonCancer	0.00E+00	0.00E+00	0.00E+00
1553	ALL	483487.5	3718163	NonCancer	0.00E+00	0.00E+00	0.00E+00
1554	ALL	483512.5	3718163	NonCancer	0.00E+00	0.00E+00	0.00E+00
1555	ALL	483537.5	3718163	NonCancer	0.00E+00	0.00E+00	0.00E+00
1556	ALL	483562.5	3718163	NonCancer	0.00E+00	0.00E+00	0.00E+00
1557	ALL	483587.5	3718163	NonCancer	0.00E+00	0.00E+00	0.00E+00
1558	ALL	483612.5	3718163	NonCancer	0.00E+00	0.00E+00	0.00E+00
1559	ALL	483637.5	3718163	NonCancer	0.00E+00	0.00E+00	0.00E+00
1560	ALL	483662.5	3718163	NonCancer	0.00E+00	0.00E+00	0.00E+00
1561	ALL	483687.5	3718163	NonCancer	0.00E+00	0.00E+00	0.00E+00
1562	ALL	484512.5	3718163	NonCancer	0.00E+00	0.00E+00	0.00E+00
1563	ALL	484537.5	3718163	NonCancer	0.00E+00	0.00E+00	0.00E+00
1564	ALL	484562.5	3718163	NonCancer	0.00E+00	0.00E+00	0.00E+00
1565	ALL	484587.5	3718163	NonCancer	0.00E+00	0.00E+00	0.00E+00
1566	ALL	484612.5	3718163	NonCancer	0.00E+00	0.00E+00	0.00E+00
1567	ALL	484637.5	3718163	NonCancer	0.00E+00	0.00E+00	0.00E+00
1568	ALL	484662.5	3718163	NonCancer	0.00E+00	0.00E+00	0.00E+00
1569	ALL	484687.5	3718163	NonCancer	0.00E+00	0.00E+00	0.00E+00
1570	ALL	484712.5	3718163	NonCancer	0.00E+00	0.00E+00	0.00E+00
1571	ALL	484737.5	3718163	NonCancer	0.00E+00	0.00E+00	0.00E+00
1572	ALL	484762.5	3718163	NonCancer	0.00E+00	0.00E+00	0.00E+00
1573	ALL	484787.5	3718163	NonCancer	0.00E+00	0.00E+00	0.00E+00
1574	ALL	484812.5	3718163	NonCancer	0.00E+00	0.00E+00	0.00E+00
1575	ALL	484837.5	3718163	NonCancer	0.00E+00	0.00E+00	0.00E+00
1576	ALL	484862.5	3718163	NonCancer	0.00E+00	0.00E+00	0.00E+00
1577	ALL	483412.5	3718188	NonCancer	0.00E+00	0.00E+00	0.00E+00
1578	ALL	483437.5	3718188	NonCancer	0.00E+00	0.00E+00	0.00E+00
1579	ALL	483462.5	3718188	NonCancer	0.00E+00	0.00E+00	0.00E+00
1580	ALL	483487.5	3718188	NonCancer	0.00E+00	0.00E+00	0.00E+00
1581	ALL	483512.5	3718188	NonCancer	0.00E+00	0.00E+00	0.00E+00
1582	ALL	483537.5	3718188	NonCancer	0.00E+00	0.00E+00	0.00E+00

1583	ALL	483562.5	3718188	NonCancer	0.00E+00	0.00E+00	0.00E+00
1584	ALL	484512.5	3718188	NonCancer	0.00E+00	0.00E+00	0.00E+00
1585	ALL	484537.5	3718188	NonCancer	0.00E+00	0.00E+00	0.00E+00
1586	ALL	484562.5	3718188	NonCancer	0.00E+00	0.00E+00	0.00E+00
1587	ALL	484587.5	3718188	NonCancer	0.00E+00	0.00E+00	0.00E+00
1588	ALL	484612.5	3718188	NonCancer	0.00E+00	0.00E+00	0.00E+00
1589	ALL	484637.5	3718188	NonCancer	0.00E+00	0.00E+00	0.00E+00
1590	ALL	484662.5	3718188	NonCancer	0.00E+00	0.00E+00	0.00E+00
1591	ALL	484687.5	3718188	NonCancer	0.00E+00	0.00E+00	0.00E+00
1592	ALL	484712.5	3718188	NonCancer	0.00E+00	0.00E+00	0.00E+00
1593	ALL	484737.5	3718188	NonCancer	0.00E+00	0.00E+00	0.00E+00
1594	ALL	484762.5	3718188	NonCancer	0.00E+00	0.00E+00	0.00E+00
1595	ALL	484787.5	3718188	NonCancer	0.00E+00	0.00E+00	0.00E+00
1596	ALL	484812.5	3718188	NonCancer	0.00E+00	0.00E+00	0.00E+00
1597	ALL	484837.5	3718188	NonCancer	0.00E+00	0.00E+00	0.00E+00
1598	ALL	484862.5	3718188	NonCancer	0.00E+00	0.00E+00	0.00E+00
1599	ALL	484162.5	3718213	NonCancer	0.00E+00	0.00E+00	0.00E+00
1600	ALL	484187.5	3718213	NonCancer	0.00E+00	0.00E+00	0.00E+00
1601	ALL	484212.5	3718213	NonCancer	0.00E+00	0.00E+00	0.00E+00
1602	ALL	484512.5	3718213	NonCancer	0.00E+00	0.00E+00	0.00E+00
1603	ALL	484537.5	3718213	NonCancer	0.00E+00	0.00E+00	0.00E+00
1604	ALL	484562.5	3718213	NonCancer	0.00E+00	0.00E+00	0.00E+00
1605	ALL	484587.5	3718213	NonCancer	0.00E+00	0.00E+00	0.00E+00
1606	ALL	484612.5	3718213	NonCancer	0.00E+00	0.00E+00	0.00E+00
1607	ALL	484637.5	3718213	NonCancer	0.00E+00	0.00E+00	0.00E+00
1608	ALL	484662.5	3718213	NonCancer	0.00E+00	0.00E+00	0.00E+00
1609	ALL	484687.5	3718213	NonCancer	0.00E+00	0.00E+00	0.00E+00
1610	ALL	484712.5	3718213	NonCancer	0.00E+00	0.00E+00	0.00E+00
1611	ALL	484737.5	3718213	NonCancer	0.00E+00	0.00E+00	0.00E+00
1612	ALL	484762.5	3718213	NonCancer	0.00E+00	0.00E+00	0.00E+00
1613	ALL	484787.5	3718213	NonCancer	0.00E+00	0.00E+00	0.00E+00
1614	ALL	484812.5	3718213	NonCancer	0.00E+00	0.00E+00	0.00E+00
1615	ALL	484837.5	3718213	NonCancer	0.00E+00	0.00E+00	0.00E+00
1616	ALL	484862.5	3718213	NonCancer	0.00E+00	0.00E+00	0.00E+00
1617	ALL	484512.5	3718238	NonCancer	0.00E+00	0.00E+00	0.00E+00
1618	ALL	484537.5	3718238	NonCancer	0.00E+00	0.00E+00	0.00E+00
1619	ALL	484562.5	3718238	NonCancer	0.00E+00	0.00E+00	0.00E+00
1620	ALL	484587.5	3718238	NonCancer	0.00E+00	0.00E+00	0.00E+00
1621	ALL	484612.5	3718238	NonCancer	0.00E+00	0.00E+00	0.00E+00
1622	ALL	484637.5	3718238	NonCancer	0.00E+00	0.00E+00	0.00E+00
1623	ALL	484662.5	3718238	NonCancer	0.00E+00	0.00E+00	0.00E+00
1624	ALL	484687.5	3718238	NonCancer	0.00E+00	0.00E+00	0.00E+00
1625	ALL	484712.5	3718238	NonCancer	0.00E+00	0.00E+00	0.00E+00
1626	ALL	484737.5	3718238	NonCancer	0.00E+00	0.00E+00	0.00E+00

1627	ALL	484762.5	3718238	NonCancer	0.00E+00	0.00E+00	0.00E+00
1628	ALL	484787.5	3718238	NonCancer	0.00E+00	0.00E+00	0.00E+00
1629	ALL	484812.5	3718238	NonCancer	0.00E+00	0.00E+00	0.00E+00
1630	ALL	484837.5	3718238	NonCancer	0.00E+00	0.00E+00	0.00E+00
1631	ALL	484862.5	3718238	NonCancer	0.00E+00	0.00E+00	0.00E+00
1632	ALL	483412.5	3718263	NonCancer	0.00E+00	0.00E+00	0.00E+00
1633	ALL	483437.5	3718263	NonCancer	0.00E+00	0.00E+00	0.00E+00
1634	ALL	484137.5	3718263	NonCancer	0.00E+00	0.00E+00	0.00E+00
1635	ALL	484162.5	3718263	NonCancer	0.00E+00	0.00E+00	0.00E+00
1636	ALL	484212.5	3718263	NonCancer	0.00E+00	0.00E+00	0.00E+00
1637	ALL	484512.5	3718263	NonCancer	0.00E+00	0.00E+00	0.00E+00
1638	ALL	484537.5	3718263	NonCancer	0.00E+00	0.00E+00	0.00E+00
1639	ALL	484562.5	3718263	NonCancer	0.00E+00	0.00E+00	0.00E+00
1640	ALL	484587.5	3718263	NonCancer	0.00E+00	0.00E+00	0.00E+00
1641	ALL	484612.5	3718263	NonCancer	0.00E+00	0.00E+00	0.00E+00
1642	ALL	484637.5	3718263	NonCancer	0.00E+00	0.00E+00	0.00E+00
1643	ALL	484662.5	3718263	NonCancer	0.00E+00	0.00E+00	0.00E+00
1644	ALL	484687.5	3718263	NonCancer	0.00E+00	0.00E+00	0.00E+00
1645	ALL	484712.5	3718263	NonCancer	0.00E+00	0.00E+00	0.00E+00
1646	ALL	484737.5	3718263	NonCancer	0.00E+00	0.00E+00	0.00E+00
1647	ALL	484762.5	3718263	NonCancer	0.00E+00	0.00E+00	0.00E+00
1648	ALL	484787.5	3718263	NonCancer	0.00E+00	0.00E+00	0.00E+00
1649	ALL	484812.5	3718263	NonCancer	0.00E+00	0.00E+00	0.00E+00
1650	ALL	484837.5	3718263	NonCancer	0.00E+00	0.00E+00	0.00E+00
1651	ALL	484862.5	3718263	NonCancer	0.00E+00	0.00E+00	0.00E+00
1652	ALL	483412.5	3718288	NonCancer	0.00E+00	0.00E+00	0.00E+00
1653	ALL	483437.5	3718288	NonCancer	0.00E+00	0.00E+00	0.00E+00
1654	ALL	484212.5	3718288	NonCancer	0.00E+00	0.00E+00	0.00E+00
1655	ALL	484512.5	3718288	NonCancer	0.00E+00	0.00E+00	0.00E+00
1656	ALL	484537.5	3718288	NonCancer	0.00E+00	0.00E+00	0.00E+00
1657	ALL	484562.5	3718288	NonCancer	0.00E+00	0.00E+00	0.00E+00
1658	ALL	484587.5	3718288	NonCancer	0.00E+00	0.00E+00	0.00E+00
1659	ALL	484612.5	3718288	NonCancer	0.00E+00	0.00E+00	0.00E+00
1660	ALL	484637.5	3718288	NonCancer	0.00E+00	0.00E+00	0.00E+00
1661	ALL	484662.5	3718288	NonCancer	0.00E+00	0.00E+00	0.00E+00
1662	ALL	484687.5	3718288	NonCancer	0.00E+00	0.00E+00	0.00E+00
1663	ALL	484712.5	3718288	NonCancer	0.00E+00	0.00E+00	0.00E+00
1664	ALL	484737.5	3718288	NonCancer	0.00E+00	0.00E+00	0.00E+00
1665	ALL	484762.5	3718288	NonCancer	0.00E+00	0.00E+00	0.00E+00
1666	ALL	484787.5	3718288	NonCancer	0.00E+00	0.00E+00	0.00E+00
1667	ALL	484812.5	3718288	NonCancer	0.00E+00	0.00E+00	0.00E+00
1668	ALL	484837.5	3718288	NonCancer	0.00E+00	0.00E+00	0.00E+00
1669	ALL	484862.5	3718288	NonCancer	0.00E+00	0.00E+00	0.00E+00
1670	ALL	483412.5	3718313	NonCancer	0.00E+00	0.00E+00	0.00E+00

1671	ALL	483437.5	3718313	NonCancer	0.00E+00	0.00E+00	0.00E+00
1672	ALL	484187.5	3718313	NonCancer	0.00E+00	0.00E+00	0.00E+00
1673	ALL	483412.5	3718338	NonCancer	0.00E+00	0.00E+00	0.00E+00
1674	ALL	483437.5	3718338	NonCancer	0.00E+00	0.00E+00	0.00E+00
1675	ALL	484187.5	3718338	NonCancer	0.00E+00	0.00E+00	0.00E+00
1676	ALL	483412.5	3718413	NonCancer	0.00E+00	0.00E+00	0.00E+00
1677	ALL	483437.5	3718413	NonCancer	0.00E+00	0.00E+00	0.00E+00
1678	ALL	483412.5	3718438	NonCancer	0.00E+00	0.00E+00	0.00E+00
1679	ALL	483437.5	3718438	NonCancer	0.00E+00	0.00E+00	0.00E+00
1680	ALL	484462.5	3718463	NonCancer	0.00E+00	0.00E+00	0.00E+00
1681	ALL	484487.5	3718463	NonCancer	0.00E+00	0.00E+00	0.00E+00
1682	ALL	484462.5	3718488	NonCancer	0.00E+00	0.00E+00	0.00E+00
1683	ALL	484487.5	3718488	NonCancer	0.00E+00	0.00E+00	0.00E+00

\1. Projects\10773 Retail Development Advisors - Murrieta EIR\HRA\HARP2\CurciConUnmit\hra\CurciU

KIDNEY	GILV	REPRO/DE\	RESP	SKIN	EYE	BONE/TEET	ENDO	BLOOD
0.00E+00	0.00E+00	0.00E+00	3.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

0.00E+00	0.00E+00	0.00E+00	5.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

0.00E+00	0.00E+00	0.00E+00	3.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

0.00E+00	0.00E+00	0.00E+00	6.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

0.00E+00	0.00E+00	0.00E+00	5.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

0.00E+00	0.00E+00	0.00E+00	7.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

0.00E+00	0.00E+00	0.00E+00	6.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	9.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	9.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	9.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	9.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	9.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	9.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	9.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	9.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	9.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	9.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

0.00E+00	0.00E+00	0.00E+00	1.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	9.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	9.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	9.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	9.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

0.00E+00	0.00E+00	0.00E+00	6.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	9.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	9.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	9.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	9.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	9.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	9.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

0.00E+00	0.00E+00	0.00E+00	8.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	9.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	9.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

0.00E+00	0.00E+00	0.00E+00	1.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.51E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.45E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.75E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	9.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

0.00E+00	0.00E+00	0.00E+00	5.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	9.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	9.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	9.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	9.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	9.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

0.00E+00	0.00E+00	0.00E+00	7.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	9.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	9.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	9.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	9.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

0.00E+00	0.00E+00	0.00E+00	6.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	9.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	9.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	9.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

0.00E+00	0.00E+00	0.00E+00	5.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	9.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	9.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

0.00E+00	0.00E+00	0.00E+00	2.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	9.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	9.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	9.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

0.00E+00	0.00E+00	0.00E+00	7.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	9.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	9.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	9.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	9.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	9.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	9.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	9.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	9.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	9.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

0.00E+00	0.00E+00	0.00E+00	5.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	9.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	9.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	9.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	9.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

0.00E+00	0.00E+00	0.00E+00	7.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

0.00E+00	0.00E+00	0.00E+00	6.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

0.00E+00	0.00E+00	0.00E+00	3.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	9.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

0.00E+00	0.00E+00	0.00E+00	7.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	9.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	9.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	9.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	8.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	9.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	9.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

0.00E+00	0.00E+00	0.00E+00	3.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	9.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.32E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.38E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

0.00E+00	0.00E+00	0.00E+00	3.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.29E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.40E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.63E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.66E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.66E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.67E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.81E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.92E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	1.99E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

0.00E+00	0.00E+00	0.00E+00	3.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.52E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.58E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.56E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.48E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

0.00E+00	0.00E+00	0.00E+00	3.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.33E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.60E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.70E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.53E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

0.00E+00	0.00E+00	0.00E+00	5.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

0.00E+00	0.00E+00	0.00E+00	2.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

0.00E+00	0.00E+00	0.00E+00	2.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

0.00E+00	0.00E+00	0.00E+00	5.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

0.00E+00	0.00E+00	0.00E+00	4.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

0.00E+00	0.00E+00	0.00E+00	4.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

0.00E+00	0.00E+00	0.00E+00	6.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

0.00E+00	0.00E+00	0.00E+00	4.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

0.00E+00	0.00E+00	0.00E+00	3.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

0.00E+00	0.00E+00	0.00E+00	5.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

0.00E+00	0.00E+00	0.00E+00	4.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	9.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	9.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	9.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

0.00E+00	0.00E+00	0.00E+00	3.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	7.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	4.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

0.00E+00	0.00E+00	0.00E+00	2.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	6.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	5.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	2.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	3.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

nmitChronicHRAInput.hra

ODOR	GENERAL	MAXHI
0.00E+00	0.00E+00	3.25E-05
0.00E+00	0.00E+00	3.33E-05
0.00E+00	0.00E+00	3.38E-05
0.00E+00	0.00E+00	3.50E-05
0.00E+00	0.00E+00	3.60E-05
0.00E+00	0.00E+00	3.66E-05
0.00E+00	0.00E+00	3.74E-05
0.00E+00	0.00E+00	3.84E-05
0.00E+00	0.00E+00	3.95E-05
0.00E+00	0.00E+00	4.07E-05
0.00E+00	0.00E+00	4.17E-05
0.00E+00	0.00E+00	4.28E-05
0.00E+00	0.00E+00	4.38E-05
0.00E+00	0.00E+00	4.46E-05
0.00E+00	0.00E+00	4.54E-05
0.00E+00	0.00E+00	4.61E-05
0.00E+00	0.00E+00	4.69E-05
0.00E+00	0.00E+00	4.72E-05
0.00E+00	0.00E+00	4.80E-05
0.00E+00	0.00E+00	4.87E-05
0.00E+00	0.00E+00	4.91E-05
0.00E+00	0.00E+00	4.93E-05
0.00E+00	0.00E+00	4.93E-05
0.00E+00	0.00E+00	4.95E-05
0.00E+00	0.00E+00	4.99E-05
0.00E+00	0.00E+00	5.00E-05
0.00E+00	0.00E+00	3.34E-05
0.00E+00	0.00E+00	3.44E-05
0.00E+00	0.00E+00	3.50E-05
0.00E+00	0.00E+00	3.61E-05
0.00E+00	0.00E+00	3.69E-05
0.00E+00	0.00E+00	3.89E-05
0.00E+00	0.00E+00	4.00E-05
0.00E+00	0.00E+00	4.10E-05
0.00E+00	0.00E+00	4.21E-05
0.00E+00	0.00E+00	4.35E-05
0.00E+00	0.00E+00	4.48E-05
0.00E+00	0.00E+00	4.59E-05
0.00E+00	0.00E+00	4.69E-05
0.00E+00	0.00E+00	4.78E-05
0.00E+00	0.00E+00	4.85E-05
0.00E+00	0.00E+00	4.93E-05

0.00E+00	0.00E+00	5.00E-05
0.00E+00	0.00E+00	5.06E-05
0.00E+00	0.00E+00	5.16E-05
0.00E+00	0.00E+00	5.21E-05
0.00E+00	0.00E+00	5.25E-05
0.00E+00	0.00E+00	5.26E-05
0.00E+00	0.00E+00	5.24E-05
0.00E+00	0.00E+00	5.25E-05
0.00E+00	0.00E+00	5.28E-05
0.00E+00	0.00E+00	5.69E-05
0.00E+00	0.00E+00	5.61E-05
0.00E+00	0.00E+00	3.45E-05
0.00E+00	0.00E+00	3.54E-05
0.00E+00	0.00E+00	3.64E-05
0.00E+00	0.00E+00	3.73E-05
0.00E+00	0.00E+00	3.81E-05
0.00E+00	0.00E+00	3.93E-05
0.00E+00	0.00E+00	4.16E-05
0.00E+00	0.00E+00	4.30E-05
0.00E+00	0.00E+00	4.41E-05
0.00E+00	0.00E+00	4.51E-05
0.00E+00	0.00E+00	4.66E-05
0.00E+00	0.00E+00	4.82E-05
0.00E+00	0.00E+00	4.95E-05
0.00E+00	0.00E+00	5.05E-05
0.00E+00	0.00E+00	5.13E-05
0.00E+00	0.00E+00	5.23E-05
0.00E+00	0.00E+00	5.28E-05
0.00E+00	0.00E+00	5.39E-05
0.00E+00	0.00E+00	5.41E-05
0.00E+00	0.00E+00	5.53E-05
0.00E+00	0.00E+00	5.52E-05
0.00E+00	0.00E+00	5.54E-05
0.00E+00	0.00E+00	5.60E-05
0.00E+00	0.00E+00	5.55E-05
0.00E+00	0.00E+00	5.56E-05
0.00E+00	0.00E+00	5.55E-05
0.00E+00	0.00E+00	5.55E-05
0.00E+00	0.00E+00	5.55E-05
0.00E+00	0.00E+00	5.48E-05
0.00E+00	0.00E+00	3.54E-05
0.00E+00	0.00E+00	3.65E-05
0.00E+00	0.00E+00	3.74E-05
0.00E+00	0.00E+00	3.84E-05

0.00E+00	0.00E+00	3.97E-05
0.00E+00	0.00E+00	4.09E-05
0.00E+00	0.00E+00	4.24E-05
0.00E+00	0.00E+00	4.47E-05
0.00E+00	0.00E+00	4.66E-05
0.00E+00	0.00E+00	4.76E-05
0.00E+00	0.00E+00	4.92E-05
0.00E+00	0.00E+00	5.09E-05
0.00E+00	0.00E+00	5.21E-05
0.00E+00	0.00E+00	5.35E-05
0.00E+00	0.00E+00	5.43E-05
0.00E+00	0.00E+00	5.55E-05
0.00E+00	0.00E+00	5.62E-05
0.00E+00	0.00E+00	5.72E-05
0.00E+00	0.00E+00	5.79E-05
0.00E+00	0.00E+00	5.86E-05
0.00E+00	0.00E+00	5.93E-05
0.00E+00	0.00E+00	5.91E-05
0.00E+00	0.00E+00	5.89E-05
0.00E+00	0.00E+00	5.86E-05
0.00E+00	0.00E+00	5.84E-05
0.00E+00	0.00E+00	5.81E-05
0.00E+00	0.00E+00	5.75E-05
0.00E+00	0.00E+00	5.70E-05
0.00E+00	0.00E+00	5.63E-05
0.00E+00	0.00E+00	3.66E-05
0.00E+00	0.00E+00	3.77E-05
0.00E+00	0.00E+00	3.86E-05
0.00E+00	0.00E+00	4.00E-05
0.00E+00	0.00E+00	4.12E-05
0.00E+00	0.00E+00	4.27E-05
0.00E+00	0.00E+00	4.40E-05
0.00E+00	0.00E+00	4.56E-05
0.00E+00	0.00E+00	4.72E-05
0.00E+00	0.00E+00	4.87E-05
0.00E+00	0.00E+00	5.02E-05
0.00E+00	0.00E+00	5.16E-05
0.00E+00	0.00E+00	5.36E-05
0.00E+00	0.00E+00	5.66E-05
0.00E+00	0.00E+00	5.78E-05
0.00E+00	0.00E+00	5.91E-05
0.00E+00	0.00E+00	6.00E-05
0.00E+00	0.00E+00	6.15E-05
0.00E+00	0.00E+00	6.22E-05

0.00E+00	0.00E+00	6.26E-05
0.00E+00	0.00E+00	6.35E-05
0.00E+00	0.00E+00	6.35E-05
0.00E+00	0.00E+00	6.32E-05
0.00E+00	0.00E+00	6.28E-05
0.00E+00	0.00E+00	6.21E-05
0.00E+00	0.00E+00	6.14E-05
0.00E+00	0.00E+00	6.07E-05
0.00E+00	0.00E+00	5.84E-05
0.00E+00	0.00E+00	5.82E-05
0.00E+00	0.00E+00	3.77E-05
0.00E+00	0.00E+00	3.87E-05
0.00E+00	0.00E+00	4.01E-05
0.00E+00	0.00E+00	4.16E-05
0.00E+00	0.00E+00	4.30E-05
0.00E+00	0.00E+00	4.44E-05
0.00E+00	0.00E+00	4.60E-05
0.00E+00	0.00E+00	4.75E-05
0.00E+00	0.00E+00	4.91E-05
0.00E+00	0.00E+00	5.10E-05
0.00E+00	0.00E+00	5.31E-05
0.00E+00	0.00E+00	5.49E-05
0.00E+00	0.00E+00	6.02E-05
0.00E+00	0.00E+00	6.19E-05
0.00E+00	0.00E+00	6.30E-05
0.00E+00	0.00E+00	6.43E-05
0.00E+00	0.00E+00	6.54E-05
0.00E+00	0.00E+00	6.71E-05
0.00E+00	0.00E+00	6.71E-05
0.00E+00	0.00E+00	6.82E-05
0.00E+00	0.00E+00	6.86E-05
0.00E+00	0.00E+00	6.82E-05
0.00E+00	0.00E+00	6.46E-05
0.00E+00	0.00E+00	6.18E-05
0.00E+00	0.00E+00	6.18E-05
0.00E+00	0.00E+00	3.88E-05
0.00E+00	0.00E+00	4.01E-05
0.00E+00	0.00E+00	4.15E-05
0.00E+00	0.00E+00	4.31E-05
0.00E+00	0.00E+00	4.46E-05
0.00E+00	0.00E+00	4.62E-05
0.00E+00	0.00E+00	4.81E-05
0.00E+00	0.00E+00	4.98E-05
0.00E+00	0.00E+00	5.15E-05

0.00E+00	0.00E+00	5.38E-05
0.00E+00	0.00E+00	5.58E-05
0.00E+00	0.00E+00	5.79E-05
0.00E+00	0.00E+00	5.98E-05
0.00E+00	0.00E+00	6.41E-05
0.00E+00	0.00E+00	6.62E-05
0.00E+00	0.00E+00	6.77E-05
0.00E+00	0.00E+00	6.89E-05
0.00E+00	0.00E+00	7.09E-05
0.00E+00	0.00E+00	7.22E-05
0.00E+00	0.00E+00	7.30E-05
0.00E+00	0.00E+00	7.34E-05
0.00E+00	0.00E+00	7.42E-05
0.00E+00	0.00E+00	7.37E-05
0.00E+00	0.00E+00	7.24E-05
0.00E+00	0.00E+00	7.01E-05
0.00E+00	0.00E+00	6.89E-05
0.00E+00	0.00E+00	6.65E-05
0.00E+00	0.00E+00	6.54E-05
0.00E+00	0.00E+00	6.49E-05
0.00E+00	0.00E+00	6.27E-05
0.00E+00	0.00E+00	6.16E-05
0.00E+00	0.00E+00	4.00E-05
0.00E+00	0.00E+00	4.15E-05
0.00E+00	0.00E+00	4.31E-05
0.00E+00	0.00E+00	4.47E-05
0.00E+00	0.00E+00	4.65E-05
0.00E+00	0.00E+00	4.82E-05
0.00E+00	0.00E+00	5.01E-05
0.00E+00	0.00E+00	5.22E-05
0.00E+00	0.00E+00	5.43E-05
0.00E+00	0.00E+00	5.64E-05
0.00E+00	0.00E+00	5.90E-05
0.00E+00	0.00E+00	6.14E-05
0.00E+00	0.00E+00	6.36E-05
0.00E+00	0.00E+00	7.11E-05
0.00E+00	0.00E+00	7.31E-05
0.00E+00	0.00E+00	7.46E-05
0.00E+00	0.00E+00	7.68E-05
0.00E+00	0.00E+00	7.83E-05
0.00E+00	0.00E+00	7.95E-05
0.00E+00	0.00E+00	8.07E-05
0.00E+00	0.00E+00	8.03E-05
0.00E+00	0.00E+00	7.99E-05

0.00E+00	0.00E+00	7.89E-05
0.00E+00	0.00E+00	7.39E-05
0.00E+00	0.00E+00	7.24E-05
0.00E+00	0.00E+00	6.92E-05
0.00E+00	0.00E+00	6.75E-05
0.00E+00	0.00E+00	6.58E-05
0.00E+00	0.00E+00	6.42E-05
0.00E+00	0.00E+00	4.13E-05
0.00E+00	0.00E+00	4.30E-05
0.00E+00	0.00E+00	4.48E-05
0.00E+00	0.00E+00	4.65E-05
0.00E+00	0.00E+00	4.83E-05
0.00E+00	0.00E+00	5.03E-05
0.00E+00	0.00E+00	5.24E-05
0.00E+00	0.00E+00	5.47E-05
0.00E+00	0.00E+00	5.71E-05
0.00E+00	0.00E+00	5.97E-05
0.00E+00	0.00E+00	6.24E-05
0.00E+00	0.00E+00	6.51E-05
0.00E+00	0.00E+00	6.80E-05
0.00E+00	0.00E+00	7.64E-05
0.00E+00	0.00E+00	7.91E-05
0.00E+00	0.00E+00	8.14E-05
0.00E+00	0.00E+00	8.36E-05
0.00E+00	0.00E+00	8.54E-05
0.00E+00	0.00E+00	8.67E-05
0.00E+00	0.00E+00	8.92E-05
0.00E+00	0.00E+00	8.01E-05
0.00E+00	0.00E+00	7.83E-05
0.00E+00	0.00E+00	7.56E-05
0.00E+00	0.00E+00	7.35E-05
0.00E+00	0.00E+00	7.16E-05
0.00E+00	0.00E+00	6.96E-05
0.00E+00	0.00E+00	4.26E-05
0.00E+00	0.00E+00	4.45E-05
0.00E+00	0.00E+00	4.65E-05
0.00E+00	0.00E+00	4.87E-05
0.00E+00	0.00E+00	5.05E-05
0.00E+00	0.00E+00	5.26E-05
0.00E+00	0.00E+00	5.49E-05
0.00E+00	0.00E+00	5.75E-05
0.00E+00	0.00E+00	6.02E-05
0.00E+00	0.00E+00	6.30E-05
0.00E+00	0.00E+00	6.62E-05

0.00E+00	0.00E+00	6.94E-05
0.00E+00	0.00E+00	7.28E-05
0.00E+00	0.00E+00	8.29E-05
0.00E+00	0.00E+00	8.61E-05
0.00E+00	0.00E+00	8.89E-05
0.00E+00	0.00E+00	9.17E-05
0.00E+00	0.00E+00	9.40E-05
0.00E+00	0.00E+00	9.56E-05
0.00E+00	0.00E+00	8.65E-05
0.00E+00	0.00E+00	8.49E-05
0.00E+00	0.00E+00	4.41E-05
0.00E+00	0.00E+00	5.77E-05
0.00E+00	0.00E+00	6.06E-05
0.00E+00	0.00E+00	6.36E-05
0.00E+00	0.00E+00	6.65E-05
0.00E+00	0.00E+00	7.05E-05
0.00E+00	0.00E+00	7.45E-05
0.00E+00	0.00E+00	7.83E-05
0.00E+00	0.00E+00	9.06E-05
0.00E+00	0.00E+00	9.45E-05
0.00E+00	0.00E+00	9.80E-05
0.00E+00	0.00E+00	1.01E-04
0.00E+00	0.00E+00	1.04E-04
0.00E+00	0.00E+00	1.06E-04
0.00E+00	0.00E+00	1.08E-04
0.00E+00	0.00E+00	8.49E-05
0.00E+00	0.00E+00	6.42E-05
0.00E+00	0.00E+00	6.74E-05
0.00E+00	0.00E+00	7.07E-05
0.00E+00	0.00E+00	7.57E-05
0.00E+00	0.00E+00	9.95E-05
0.00E+00	0.00E+00	1.05E-04
0.00E+00	0.00E+00	1.09E-04
0.00E+00	0.00E+00	1.14E-04
0.00E+00	0.00E+00	1.17E-04
0.00E+00	0.00E+00	1.20E-04
0.00E+00	0.00E+00	1.22E-04
0.00E+00	0.00E+00	9.80E-05
0.00E+00	0.00E+00	9.54E-05
0.00E+00	0.00E+00	9.20E-05
0.00E+00	0.00E+00	7.52E-05
0.00E+00	0.00E+00	8.05E-05
0.00E+00	0.00E+00	1.09E-04
0.00E+00	0.00E+00	1.16E-04

0.00E+00	0.00E+00	1.23E-04
0.00E+00	0.00E+00	1.29E-04
0.00E+00	0.00E+00	1.33E-04
0.00E+00	0.00E+00	1.37E-04
0.00E+00	0.00E+00	1.39E-04
0.00E+00	0.00E+00	9.11E-05
0.00E+00	0.00E+00	4.72E-05
0.00E+00	0.00E+00	7.16E-05
0.00E+00	0.00E+00	7.61E-05
0.00E+00	0.00E+00	8.01E-05
0.00E+00	0.00E+00	8.64E-05
0.00E+00	0.00E+00	9.25E-05
0.00E+00	0.00E+00	1.00E-04
0.00E+00	0.00E+00	1.22E-04
0.00E+00	0.00E+00	1.31E-04
0.00E+00	0.00E+00	1.42E-04
0.00E+00	0.00E+00	1.49E-04
0.00E+00	0.00E+00	1.54E-04
0.00E+00	0.00E+00	1.59E-04
0.00E+00	0.00E+00	1.62E-04
0.00E+00	0.00E+00	1.02E-04
0.00E+00	0.00E+00	9.58E-05
0.00E+00	0.00E+00	8.98E-05
0.00E+00	0.00E+00	8.39E-05
0.00E+00	0.00E+00	7.91E-05
0.00E+00	0.00E+00	7.33E-05
0.00E+00	0.00E+00	4.84E-05
0.00E+00	0.00E+00	5.10E-05
0.00E+00	0.00E+00	5.37E-05
0.00E+00	0.00E+00	7.52E-05
0.00E+00	0.00E+00	8.03E-05
0.00E+00	0.00E+00	8.57E-05
0.00E+00	0.00E+00	9.29E-05
0.00E+00	0.00E+00	1.01E-04
0.00E+00	0.00E+00	1.09E-04
0.00E+00	0.00E+00	1.17E-04
0.00E+00	0.00E+00	1.94E-04
0.00E+00	0.00E+00	8.11E-05
0.00E+00	0.00E+00	7.50E-05
0.00E+00	0.00E+00	4.95E-05
0.00E+00	0.00E+00	5.21E-05
0.00E+00	0.00E+00	5.52E-05
0.00E+00	0.00E+00	5.87E-05
0.00E+00	0.00E+00	6.25E-05

0.00E+00	0.00E+00	6.68E-05
0.00E+00	0.00E+00	1.18E-04
0.00E+00	0.00E+00	1.29E-04
0.00E+00	0.00E+00	8.25E-05
0.00E+00	0.00E+00	7.64E-05
0.00E+00	0.00E+00	5.05E-05
0.00E+00	0.00E+00	5.33E-05
0.00E+00	0.00E+00	5.66E-05
0.00E+00	0.00E+00	6.04E-05
0.00E+00	0.00E+00	6.43E-05
0.00E+00	0.00E+00	6.89E-05
0.00E+00	0.00E+00	7.41E-05
0.00E+00	0.00E+00	8.01E-05
0.00E+00	0.00E+00	9.52E-05
0.00E+00	0.00E+00	1.06E-04
0.00E+00	0.00E+00	1.44E-04
0.00E+00	0.00E+00	9.98E-05
0.00E+00	0.00E+00	9.19E-05
0.00E+00	0.00E+00	8.41E-05
0.00E+00	0.00E+00	7.76E-05
0.00E+00	0.00E+00	4.79E-05
0.00E+00	0.00E+00	5.12E-05
0.00E+00	0.00E+00	5.45E-05
0.00E+00	0.00E+00	5.82E-05
0.00E+00	0.00E+00	6.17E-05
0.00E+00	0.00E+00	6.60E-05
0.00E+00	0.00E+00	7.11E-05
0.00E+00	0.00E+00	7.64E-05
0.00E+00	0.00E+00	8.32E-05
0.00E+00	0.00E+00	9.09E-05
0.00E+00	0.00E+00	9.95E-05
0.00E+00	0.00E+00	1.10E-04
0.00E+00	0.00E+00	1.24E-04
0.00E+00	0.00E+00	1.03E-04
0.00E+00	0.00E+00	9.34E-05
0.00E+00	0.00E+00	8.51E-05
0.00E+00	0.00E+00	7.83E-05
0.00E+00	0.00E+00	5.22E-05
0.00E+00	0.00E+00	5.53E-05
0.00E+00	0.00E+00	5.90E-05
0.00E+00	0.00E+00	6.35E-05
0.00E+00	0.00E+00	6.82E-05
0.00E+00	0.00E+00	7.29E-05
0.00E+00	0.00E+00	7.88E-05

0.00E+00	0.00E+00	8.60E-05
0.00E+00	0.00E+00	9.47E-05
0.00E+00	0.00E+00	1.04E-04
0.00E+00	0.00E+00	1.16E-04
0.00E+00	0.00E+00	1.31E-04
0.00E+00	0.00E+00	1.50E-04
0.00E+00	0.00E+00	1.73E-04
0.00E+00	0.00E+00	2.01E-04
0.00E+00	0.00E+00	2.36E-04
0.00E+00	0.00E+00	4.67E-04
0.00E+00	0.00E+00	5.24E-04
0.00E+00	0.00E+00	5.70E-05
0.00E+00	0.00E+00	5.40E-05
0.00E+00	0.00E+00	5.31E-05
0.00E+00	0.00E+00	5.63E-05
0.00E+00	0.00E+00	5.98E-05
0.00E+00	0.00E+00	6.43E-05
0.00E+00	0.00E+00	6.92E-05
0.00E+00	0.00E+00	7.48E-05
0.00E+00	0.00E+00	8.09E-05
0.00E+00	0.00E+00	8.87E-05
0.00E+00	0.00E+00	9.80E-05
0.00E+00	0.00E+00	1.09E-04
0.00E+00	0.00E+00	1.21E-04
0.00E+00	0.00E+00	1.38E-04
0.00E+00	0.00E+00	1.59E-04
0.00E+00	0.00E+00	1.87E-04
0.00E+00	0.00E+00	2.23E-04
0.00E+00	0.00E+00	2.70E-04
0.00E+00	0.00E+00	6.78E-04
0.00E+00	0.00E+00	7.98E-04
0.00E+00	0.00E+00	8.45E-04
0.00E+00	0.00E+00	3.07E-04
0.00E+00	0.00E+00	2.53E-04
0.00E+00	0.00E+00	5.99E-05
0.00E+00	0.00E+00	5.66E-05
0.00E+00	0.00E+00	5.36E-05
0.00E+00	0.00E+00	5.39E-05
0.00E+00	0.00E+00	5.72E-05
0.00E+00	0.00E+00	6.08E-05
0.00E+00	0.00E+00	6.54E-05
0.00E+00	0.00E+00	7.03E-05
0.00E+00	0.00E+00	7.60E-05
0.00E+00	0.00E+00	1.01E-04

0.00E+00	0.00E+00	1.12E-04
0.00E+00	0.00E+00	1.26E-04
0.00E+00	0.00E+00	1.44E-04
0.00E+00	0.00E+00	1.68E-04
0.00E+00	0.00E+00	2.00E-04
0.00E+00	0.00E+00	2.45E-04
0.00E+00	0.00E+00	3.07E-04
0.00E+00	0.00E+00	3.99E-04
0.00E+00	0.00E+00	1.06E-03
0.00E+00	0.00E+00	1.41E-03
0.00E+00	0.00E+00	1.51E-03
0.00E+00	0.00E+00	4.34E-04
0.00E+00	0.00E+00	3.38E-04
0.00E+00	0.00E+00	2.71E-04
0.00E+00	0.00E+00	5.48E-05
0.00E+00	0.00E+00	5.82E-05
0.00E+00	0.00E+00	6.21E-05
0.00E+00	0.00E+00	6.64E-05
0.00E+00	0.00E+00	7.15E-05
0.00E+00	0.00E+00	7.75E-05
0.00E+00	0.00E+00	1.03E-04
0.00E+00	0.00E+00	1.15E-04
0.00E+00	0.00E+00	1.30E-04
0.00E+00	0.00E+00	1.50E-04
0.00E+00	0.00E+00	2.13E-04
0.00E+00	0.00E+00	2.64E-04
0.00E+00	0.00E+00	3.44E-04
0.00E+00	0.00E+00	4.67E-04
0.00E+00	0.00E+00	3.45E-03
0.00E+00	0.00E+00	3.75E-03
0.00E+00	0.00E+00	6.90E-05
0.00E+00	0.00E+00	6.44E-05
0.00E+00	0.00E+00	5.33E-05
0.00E+00	0.00E+00	5.86E-05
0.00E+00	0.00E+00	6.27E-05
0.00E+00	0.00E+00	6.72E-05
0.00E+00	0.00E+00	7.25E-05
0.00E+00	0.00E+00	7.85E-05
0.00E+00	0.00E+00	8.58E-05
0.00E+00	0.00E+00	9.42E-05
0.00E+00	0.00E+00	1.05E-04
0.00E+00	0.00E+00	1.17E-04
0.00E+00	0.00E+00	1.33E-04
0.00E+00	0.00E+00	2.80E-04

0.00E+00	0.00E+00	5.22E-04
0.00E+00	0.00E+00	3.82E-04
0.00E+00	0.00E+00	2.95E-04
0.00E+00	0.00E+00	2.36E-04
0.00E+00	0.00E+00	1.42E-04
0.00E+00	0.00E+00	9.79E-05
0.00E+00	0.00E+00	8.91E-05
0.00E+00	0.00E+00	6.74E-05
0.00E+00	0.00E+00	7.04E-05
0.00E+00	0.00E+00	7.60E-05
0.00E+00	0.00E+00	8.36E-05
0.00E+00	0.00E+00	9.33E-05
0.00E+00	0.00E+00	1.06E-04
0.00E+00	0.00E+00	1.18E-04
0.00E+00	0.00E+00	1.35E-04
0.00E+00	0.00E+00	5.55E-04
0.00E+00	0.00E+00	3.99E-04
0.00E+00	0.00E+00	3.04E-04
0.00E+00	0.00E+00	2.42E-04
0.00E+00	0.00E+00	1.44E-04
0.00E+00	0.00E+00	9.85E-05
0.00E+00	0.00E+00	8.95E-05
0.00E+00	0.00E+00	8.20E-05
0.00E+00	0.00E+00	7.52E-05
0.00E+00	0.00E+00	6.95E-05
0.00E+00	0.00E+00	6.47E-05
0.00E+00	0.00E+00	6.06E-05
0.00E+00	0.00E+00	6.50E-05
0.00E+00	0.00E+00	9.04E-05
0.00E+00	0.00E+00	1.03E-04
0.00E+00	0.00E+00	1.19E-04
0.00E+00	0.00E+00	1.35E-04
0.00E+00	0.00E+00	2.87E-04
0.00E+00	0.00E+00	3.83E-04
0.00E+00	0.00E+00	5.87E-04
0.00E+00	0.00E+00	4.18E-04
0.00E+00	0.00E+00	3.16E-04
0.00E+00	0.00E+00	2.49E-04
0.00E+00	0.00E+00	2.03E-04
0.00E+00	0.00E+00	1.46E-04
0.00E+00	0.00E+00	1.27E-04
0.00E+00	0.00E+00	1.00E-04
0.00E+00	0.00E+00	9.08E-05
0.00E+00	0.00E+00	8.28E-05

0.00E+00	0.00E+00	7.58E-05
0.00E+00	0.00E+00	7.03E-05
0.00E+00	0.00E+00	6.55E-05
0.00E+00	0.00E+00	6.11E-05
0.00E+00	0.00E+00	4.57E-05
0.00E+00	0.00E+00	6.26E-05
0.00E+00	0.00E+00	6.27E-05
0.00E+00	0.00E+00	9.90E-05
0.00E+00	0.00E+00	2.79E-04
0.00E+00	0.00E+00	3.68E-04
0.00E+00	0.00E+00	5.15E-04
0.00E+00	0.00E+00	6.09E-04
0.00E+00	0.00E+00	4.35E-04
0.00E+00	0.00E+00	3.28E-04
0.00E+00	0.00E+00	2.58E-04
0.00E+00	0.00E+00	2.09E-04
0.00E+00	0.00E+00	1.14E-04
0.00E+00	0.00E+00	1.01E-04
0.00E+00	0.00E+00	9.22E-05
0.00E+00	0.00E+00	8.35E-05
0.00E+00	0.00E+00	7.65E-05
0.00E+00	0.00E+00	7.10E-05
0.00E+00	0.00E+00	6.62E-05
0.00E+00	0.00E+00	6.18E-05
0.00E+00	0.00E+00	4.57E-05
0.00E+00	0.00E+00	4.74E-05
0.00E+00	0.00E+00	9.70E-05
0.00E+00	0.00E+00	1.12E-04
0.00E+00	0.00E+00	1.25E-04
0.00E+00	0.00E+00	1.46E-04
0.00E+00	0.00E+00	1.71E-04
0.00E+00	0.00E+00	2.06E-04
0.00E+00	0.00E+00	2.61E-04
0.00E+00	0.00E+00	3.40E-04
0.00E+00	0.00E+00	4.69E-04
0.00E+00	0.00E+00	6.81E-04
0.00E+00	0.00E+00	6.04E-04
0.00E+00	0.00E+00	4.41E-04
0.00E+00	0.00E+00	1.04E-04
0.00E+00	0.00E+00	9.32E-05
0.00E+00	0.00E+00	8.43E-05
0.00E+00	0.00E+00	7.71E-05
0.00E+00	0.00E+00	7.13E-05
0.00E+00	0.00E+00	6.63E-05

0.00E+00	0.00E+00	6.20E-05
0.00E+00	0.00E+00	4.71E-05
0.00E+00	0.00E+00	4.79E-05
0.00E+00	0.00E+00	4.98E-05
0.00E+00	0.00E+00	5.39E-05
0.00E+00	0.00E+00	5.90E-05
0.00E+00	0.00E+00	8.34E-05
0.00E+00	0.00E+00	9.45E-05
0.00E+00	0.00E+00	1.00E-04
0.00E+00	0.00E+00	1.13E-04
0.00E+00	0.00E+00	1.31E-04
0.00E+00	0.00E+00	1.58E-04
0.00E+00	0.00E+00	2.41E-04
0.00E+00	0.00E+00	3.09E-04
0.00E+00	0.00E+00	4.08E-04
0.00E+00	0.00E+00	5.55E-04
0.00E+00	0.00E+00	5.59E-04
0.00E+00	0.00E+00	4.28E-04
0.00E+00	0.00E+00	1.34E-04
0.00E+00	0.00E+00	9.42E-05
0.00E+00	0.00E+00	8.54E-05
0.00E+00	0.00E+00	7.81E-05
0.00E+00	0.00E+00	4.78E-05
0.00E+00	0.00E+00	4.90E-05
0.00E+00	0.00E+00	5.02E-05
0.00E+00	0.00E+00	5.25E-05
0.00E+00	0.00E+00	5.84E-05
0.00E+00	0.00E+00	6.53E-05
0.00E+00	0.00E+00	7.18E-05
0.00E+00	0.00E+00	8.11E-05
0.00E+00	0.00E+00	8.96E-05
0.00E+00	0.00E+00	8.80E-05
0.00E+00	0.00E+00	9.64E-05
0.00E+00	0.00E+00	1.72E-04
0.00E+00	0.00E+00	4.85E-04
0.00E+00	0.00E+00	3.94E-04
0.00E+00	0.00E+00	3.20E-04
0.00E+00	0.00E+00	2.63E-04
0.00E+00	0.00E+00	1.57E-04
0.00E+00	0.00E+00	1.37E-04
0.00E+00	0.00E+00	8.69E-05
0.00E+00	0.00E+00	4.53E-05
0.00E+00	0.00E+00	4.80E-05
0.00E+00	0.00E+00	4.95E-05

0.00E+00	0.00E+00	5.11E-05
0.00E+00	0.00E+00	5.66E-05
0.00E+00	0.00E+00	6.39E-05
0.00E+00	0.00E+00	6.99E-05
0.00E+00	0.00E+00	7.72E-05
0.00E+00	0.00E+00	8.53E-05
0.00E+00	0.00E+00	1.22E-04
0.00E+00	0.00E+00	2.48E-04
0.00E+00	0.00E+00	1.37E-04
0.00E+00	0.00E+00	1.21E-04
0.00E+00	0.00E+00	9.66E-05
0.00E+00	0.00E+00	8.84E-05
0.00E+00	0.00E+00	5.89E-05
0.00E+00	0.00E+00	5.54E-05
0.00E+00	0.00E+00	4.38E-05
0.00E+00	0.00E+00	4.68E-05
0.00E+00	0.00E+00	4.83E-05
0.00E+00	0.00E+00	5.01E-05
0.00E+00	0.00E+00	5.45E-05
0.00E+00	0.00E+00	6.09E-05
0.00E+00	0.00E+00	6.76E-05
0.00E+00	0.00E+00	7.43E-05
0.00E+00	0.00E+00	8.20E-05
0.00E+00	0.00E+00	8.68E-05
0.00E+00	0.00E+00	1.80E-04
0.00E+00	0.00E+00	3.53E-04
0.00E+00	0.00E+00	1.55E-04
0.00E+00	0.00E+00	1.37E-04
0.00E+00	0.00E+00	1.22E-04
0.00E+00	0.00E+00	8.09E-05
0.00E+00	0.00E+00	7.40E-05
0.00E+00	0.00E+00	6.82E-05
0.00E+00	0.00E+00	6.38E-05
0.00E+00	0.00E+00	4.21E-05
0.00E+00	0.00E+00	4.48E-05
0.00E+00	0.00E+00	4.78E-05
0.00E+00	0.00E+00	5.03E-05
0.00E+00	0.00E+00	5.38E-05
0.00E+00	0.00E+00	5.96E-05
0.00E+00	0.00E+00	6.51E-05
0.00E+00	0.00E+00	7.08E-05
0.00E+00	0.00E+00	8.01E-05
0.00E+00	0.00E+00	8.71E-05
0.00E+00	0.00E+00	9.39E-05

0.00E+00	0.00E+00	2.02E-04
0.00E+00	0.00E+00	2.50E-04
0.00E+00	0.00E+00	2.30E-04
0.00E+00	0.00E+00	2.09E-04
0.00E+00	0.00E+00	7.48E-05
0.00E+00	0.00E+00	6.93E-05
0.00E+00	0.00E+00	4.32E-05
0.00E+00	0.00E+00	4.64E-05
0.00E+00	0.00E+00	5.01E-05
0.00E+00	0.00E+00	5.44E-05
0.00E+00	0.00E+00	5.82E-05
0.00E+00	0.00E+00	6.32E-05
0.00E+00	0.00E+00	7.00E-05
0.00E+00	0.00E+00	7.76E-05
0.00E+00	0.00E+00	8.66E-05
0.00E+00	0.00E+00	9.65E-05
0.00E+00	0.00E+00	1.42E-04
0.00E+00	0.00E+00	1.07E-04
0.00E+00	0.00E+00	9.72E-05
0.00E+00	0.00E+00	8.85E-05
0.00E+00	0.00E+00	7.58E-05
0.00E+00	0.00E+00	6.95E-05
0.00E+00	0.00E+00	6.52E-05
0.00E+00	0.00E+00	4.25E-05
0.00E+00	0.00E+00	4.57E-05
0.00E+00	0.00E+00	4.86E-05
0.00E+00	0.00E+00	5.27E-05
0.00E+00	0.00E+00	5.74E-05
0.00E+00	0.00E+00	6.27E-05
0.00E+00	0.00E+00	6.86E-05
0.00E+00	0.00E+00	7.64E-05
0.00E+00	0.00E+00	8.52E-05
0.00E+00	0.00E+00	9.36E-05
0.00E+00	0.00E+00	1.04E-04
0.00E+00	0.00E+00	1.55E-04
0.00E+00	0.00E+00	1.45E-04
0.00E+00	0.00E+00	1.34E-04
0.00E+00	0.00E+00	7.60E-05
0.00E+00	0.00E+00	7.02E-05
0.00E+00	0.00E+00	6.53E-05
0.00E+00	0.00E+00	5.21E-05
0.00E+00	0.00E+00	5.68E-05
0.00E+00	0.00E+00	6.18E-05
0.00E+00	0.00E+00	6.78E-05

0.00E+00	0.00E+00	7.51E-05
0.00E+00	0.00E+00	8.29E-05
0.00E+00	0.00E+00	9.00E-05
0.00E+00	0.00E+00	9.82E-05
0.00E+00	0.00E+00	1.03E-04
0.00E+00	0.00E+00	1.51E-04
0.00E+00	0.00E+00	1.57E-04
0.00E+00	0.00E+00	1.08E-04
0.00E+00	0.00E+00	1.00E-04
0.00E+00	0.00E+00	8.08E-05
0.00E+00	0.00E+00	7.52E-05
0.00E+00	0.00E+00	7.04E-05
0.00E+00	0.00E+00	6.53E-05
0.00E+00	0.00E+00	5.61E-05
0.00E+00	0.00E+00	6.14E-05
0.00E+00	0.00E+00	6.67E-05
0.00E+00	0.00E+00	7.33E-05
0.00E+00	0.00E+00	7.95E-05
0.00E+00	0.00E+00	8.59E-05
0.00E+00	0.00E+00	9.18E-05
0.00E+00	0.00E+00	9.77E-05
0.00E+00	0.00E+00	1.01E-04
0.00E+00	0.00E+00	8.01E-05
0.00E+00	0.00E+00	7.47E-05
0.00E+00	0.00E+00	6.96E-05
0.00E+00	0.00E+00	6.54E-05
0.00E+00	0.00E+00	4.71E-05
0.00E+00	0.00E+00	5.13E-05
0.00E+00	0.00E+00	5.57E-05
0.00E+00	0.00E+00	6.04E-05
0.00E+00	0.00E+00	6.56E-05
0.00E+00	0.00E+00	7.60E-05
0.00E+00	0.00E+00	8.08E-05
0.00E+00	0.00E+00	8.58E-05
0.00E+00	0.00E+00	8.99E-05
0.00E+00	0.00E+00	9.27E-05
0.00E+00	0.00E+00	9.39E-05
0.00E+00	0.00E+00	9.48E-05
0.00E+00	0.00E+00	9.54E-05
0.00E+00	0.00E+00	1.01E-04
0.00E+00	0.00E+00	9.13E-05
0.00E+00	0.00E+00	8.64E-05
0.00E+00	0.00E+00	8.19E-05
0.00E+00	0.00E+00	7.77E-05

0.00E+00	0.00E+00	5.12E-05
0.00E+00	0.00E+00	6.37E-05
0.00E+00	0.00E+00	7.25E-05
0.00E+00	0.00E+00	8.01E-05
0.00E+00	0.00E+00	8.28E-05
0.00E+00	0.00E+00	8.49E-05
0.00E+00	0.00E+00	8.61E-05
0.00E+00	0.00E+00	8.69E-05
0.00E+00	0.00E+00	8.73E-05
0.00E+00	0.00E+00	9.42E-05
0.00E+00	0.00E+00	8.26E-05
0.00E+00	0.00E+00	7.89E-05
0.00E+00	0.00E+00	6.75E-05
0.00E+00	0.00E+00	9.82E-05
0.00E+00	0.00E+00	9.64E-05
0.00E+00	0.00E+00	9.52E-05
0.00E+00	0.00E+00	8.81E-05
0.00E+00	0.00E+00	8.71E-05
0.00E+00	0.00E+00	8.58E-05
0.00E+00	0.00E+00	8.44E-05
0.00E+00	0.00E+00	8.29E-05
0.00E+00	0.00E+00	8.08E-05
0.00E+00	0.00E+00	8.24E-05
0.00E+00	0.00E+00	8.27E-05
0.00E+00	0.00E+00	8.24E-05
0.00E+00	0.00E+00	8.17E-05
0.00E+00	0.00E+00	8.10E-05
0.00E+00	0.00E+00	8.02E-05
0.00E+00	0.00E+00	7.94E-05
0.00E+00	0.00E+00	7.84E-05
0.00E+00	0.00E+00	7.70E-05
0.00E+00	0.00E+00	7.57E-05
0.00E+00	0.00E+00	7.42E-05
0.00E+00	0.00E+00	7.23E-05
0.00E+00	0.00E+00	7.05E-05
0.00E+00	0.00E+00	7.34E-05
0.00E+00	0.00E+00	7.50E-05
0.00E+00	0.00E+00	7.63E-05
0.00E+00	0.00E+00	7.62E-05
0.00E+00	0.00E+00	7.57E-05
0.00E+00	0.00E+00	7.50E-05
0.00E+00	0.00E+00	7.44E-05
0.00E+00	0.00E+00	7.38E-05
0.00E+00	0.00E+00	7.27E-05

0.00E+00	0.00E+00	7.18E-05
0.00E+00	0.00E+00	7.06E-05
0.00E+00	0.00E+00	6.97E-05
0.00E+00	0.00E+00	6.83E-05
0.00E+00	0.00E+00	6.67E-05
0.00E+00	0.00E+00	6.18E-05
0.00E+00	0.00E+00	6.21E-05
0.00E+00	0.00E+00	6.18E-05
0.00E+00	0.00E+00	5.73E-05
0.00E+00	0.00E+00	5.73E-05
0.00E+00	0.00E+00	5.74E-05
0.00E+00	0.00E+00	5.82E-05
0.00E+00	0.00E+00	4.11E-04
0.00E+00	0.00E+00	4.23E-04
0.00E+00	0.00E+00	4.35E-04
0.00E+00	0.00E+00	2.19E-04
0.00E+00	0.00E+00	4.28E-04
0.00E+00	0.00E+00	4.42E-04
0.00E+00	0.00E+00	4.57E-04
0.00E+00	0.00E+00	4.72E-04
0.00E+00	0.00E+00	4.85E-04
0.00E+00	0.00E+00	4.96E-04
0.00E+00	0.00E+00	2.26E-04
0.00E+00	0.00E+00	2.35E-04
0.00E+00	0.00E+00	2.45E-04
0.00E+00	0.00E+00	4.59E-04
0.00E+00	0.00E+00	4.77E-04
0.00E+00	0.00E+00	4.94E-04
0.00E+00	0.00E+00	5.13E-04
0.00E+00	0.00E+00	5.28E-04
0.00E+00	0.00E+00	5.42E-04
0.00E+00	0.00E+00	5.55E-04
0.00E+00	0.00E+00	5.64E-04
0.00E+00	0.00E+00	2.33E-04
0.00E+00	0.00E+00	2.43E-04
0.00E+00	0.00E+00	2.54E-04
0.00E+00	0.00E+00	2.66E-04
0.00E+00	0.00E+00	4.97E-04
0.00E+00	0.00E+00	5.18E-04
0.00E+00	0.00E+00	5.39E-04
0.00E+00	0.00E+00	5.61E-04
0.00E+00	0.00E+00	5.80E-04
0.00E+00	0.00E+00	5.97E-04
0.00E+00	0.00E+00	6.12E-04

0.00E+00	0.00E+00	6.23E-04
0.00E+00	0.00E+00	6.31E-04
0.00E+00	0.00E+00	2.40E-04
0.00E+00	0.00E+00	2.51E-04
0.00E+00	0.00E+00	2.63E-04
0.00E+00	0.00E+00	2.76E-04
0.00E+00	0.00E+00	2.89E-04
0.00E+00	0.00E+00	5.18E-04
0.00E+00	0.00E+00	5.43E-04
0.00E+00	0.00E+00	5.69E-04
0.00E+00	0.00E+00	5.95E-04
0.00E+00	0.00E+00	6.20E-04
0.00E+00	0.00E+00	6.43E-04
0.00E+00	0.00E+00	6.63E-04
0.00E+00	0.00E+00	6.80E-04
0.00E+00	0.00E+00	6.94E-04
0.00E+00	0.00E+00	7.03E-04
0.00E+00	0.00E+00	7.08E-04
0.00E+00	0.00E+00	3.48E-04
0.00E+00	0.00E+00	3.32E-04
0.00E+00	0.00E+00	3.16E-04
0.00E+00	0.00E+00	3.02E-04
0.00E+00	0.00E+00	2.87E-04
0.00E+00	0.00E+00	2.74E-04
0.00E+00	0.00E+00	2.62E-04
0.00E+00	0.00E+00	2.50E-04
0.00E+00	0.00E+00	2.40E-04
0.00E+00	0.00E+00	2.47E-04
0.00E+00	0.00E+00	2.59E-04
0.00E+00	0.00E+00	2.72E-04
0.00E+00	0.00E+00	2.86E-04
0.00E+00	0.00E+00	3.01E-04
0.00E+00	0.00E+00	3.18E-04
0.00E+00	0.00E+00	5.64E-04
0.00E+00	0.00E+00	5.96E-04
0.00E+00	0.00E+00	6.28E-04
0.00E+00	0.00E+00	6.60E-04
0.00E+00	0.00E+00	6.90E-04
0.00E+00	0.00E+00	7.17E-04
0.00E+00	0.00E+00	7.41E-04
0.00E+00	0.00E+00	7.62E-04
0.00E+00	0.00E+00	7.78E-04
0.00E+00	0.00E+00	7.89E-04
0.00E+00	0.00E+00	7.95E-04

0.00E+00	0.00E+00	3.62E-04
0.00E+00	0.00E+00	3.44E-04
0.00E+00	0.00E+00	3.27E-04
0.00E+00	0.00E+00	3.11E-04
0.00E+00	0.00E+00	2.96E-04
0.00E+00	0.00E+00	2.81E-04
0.00E+00	0.00E+00	2.68E-04
0.00E+00	0.00E+00	2.56E-04
0.00E+00	0.00E+00	2.45E-04
0.00E+00	0.00E+00	2.54E-04
0.00E+00	0.00E+00	2.67E-04
0.00E+00	0.00E+00	2.82E-04
0.00E+00	0.00E+00	2.97E-04
0.00E+00	0.00E+00	3.14E-04
0.00E+00	0.00E+00	3.32E-04
0.00E+00	0.00E+00	6.16E-04
0.00E+00	0.00E+00	6.56E-04
0.00E+00	0.00E+00	6.96E-04
0.00E+00	0.00E+00	7.35E-04
0.00E+00	0.00E+00	7.73E-04
0.00E+00	0.00E+00	8.07E-04
0.00E+00	0.00E+00	8.36E-04
0.00E+00	0.00E+00	8.60E-04
0.00E+00	0.00E+00	8.81E-04
0.00E+00	0.00E+00	8.94E-04
0.00E+00	0.00E+00	9.00E-04
0.00E+00	0.00E+00	3.75E-04
0.00E+00	0.00E+00	3.55E-04
0.00E+00	0.00E+00	3.37E-04
0.00E+00	0.00E+00	3.20E-04
0.00E+00	0.00E+00	3.03E-04
0.00E+00	0.00E+00	2.88E-04
0.00E+00	0.00E+00	2.74E-04
0.00E+00	0.00E+00	2.62E-04
0.00E+00	0.00E+00	2.49E-04
0.00E+00	0.00E+00	2.38E-04
0.00E+00	0.00E+00	2.62E-04
0.00E+00	0.00E+00	2.76E-04
0.00E+00	0.00E+00	2.91E-04
0.00E+00	0.00E+00	3.08E-04
0.00E+00	0.00E+00	3.27E-04
0.00E+00	0.00E+00	3.47E-04
0.00E+00	0.00E+00	3.69E-04
0.00E+00	0.00E+00	6.74E-04

0.00E+00	0.00E+00	7.23E-04
0.00E+00	0.00E+00	7.72E-04
0.00E+00	0.00E+00	8.23E-04
0.00E+00	0.00E+00	8.71E-04
0.00E+00	0.00E+00	9.14E-04
0.00E+00	0.00E+00	9.51E-04
0.00E+00	0.00E+00	9.82E-04
0.00E+00	0.00E+00	1.01E-03
0.00E+00	0.00E+00	1.02E-03
0.00E+00	0.00E+00	1.03E-03
0.00E+00	0.00E+00	1.03E-03
0.00E+00	0.00E+00	3.88E-04
0.00E+00	0.00E+00	3.67E-04
0.00E+00	0.00E+00	3.47E-04
0.00E+00	0.00E+00	3.28E-04
0.00E+00	0.00E+00	3.11E-04
0.00E+00	0.00E+00	2.95E-04
0.00E+00	0.00E+00	2.80E-04
0.00E+00	0.00E+00	2.67E-04
0.00E+00	0.00E+00	2.54E-04
0.00E+00	0.00E+00	2.42E-04
0.00E+00	0.00E+00	2.69E-04
0.00E+00	0.00E+00	2.85E-04
0.00E+00	0.00E+00	3.02E-04
0.00E+00	0.00E+00	3.20E-04
0.00E+00	0.00E+00	3.40E-04
0.00E+00	0.00E+00	3.62E-04
0.00E+00	0.00E+00	3.86E-04
0.00E+00	0.00E+00	7.39E-04
0.00E+00	0.00E+00	7.97E-04
0.00E+00	0.00E+00	8.59E-04
0.00E+00	0.00E+00	9.23E-04
0.00E+00	0.00E+00	9.85E-04
0.00E+00	0.00E+00	1.04E-03
0.00E+00	0.00E+00	1.09E-03
0.00E+00	0.00E+00	1.13E-03
0.00E+00	0.00E+00	1.16E-03
0.00E+00	0.00E+00	1.18E-03
0.00E+00	0.00E+00	1.19E-03
0.00E+00	0.00E+00	1.18E-03
0.00E+00	0.00E+00	4.82E-04
0.00E+00	0.00E+00	4.53E-04
0.00E+00	0.00E+00	4.26E-04
0.00E+00	0.00E+00	4.01E-04

0.00E+00	0.00E+00	3.78E-04
0.00E+00	0.00E+00	3.57E-04
0.00E+00	0.00E+00	3.37E-04
0.00E+00	0.00E+00	3.19E-04
0.00E+00	0.00E+00	3.02E-04
0.00E+00	0.00E+00	2.86E-04
0.00E+00	0.00E+00	2.71E-04
0.00E+00	0.00E+00	2.58E-04
0.00E+00	0.00E+00	2.45E-04
0.00E+00	0.00E+00	2.77E-04
0.00E+00	0.00E+00	2.94E-04
0.00E+00	0.00E+00	3.12E-04
0.00E+00	0.00E+00	3.32E-04
0.00E+00	0.00E+00	3.53E-04
0.00E+00	0.00E+00	3.78E-04
0.00E+00	0.00E+00	4.04E-04
0.00E+00	0.00E+00	4.34E-04
0.00E+00	0.00E+00	9.56E-04
0.00E+00	0.00E+00	1.03E-03
0.00E+00	0.00E+00	1.11E-03
0.00E+00	0.00E+00	1.20E-03
0.00E+00	0.00E+00	1.27E-03
0.00E+00	0.00E+00	1.32E-03
0.00E+00	0.00E+00	1.36E-03
0.00E+00	0.00E+00	1.39E-03
0.00E+00	0.00E+00	1.39E-03
0.00E+00	0.00E+00	1.38E-03
0.00E+00	0.00E+00	5.02E-04
0.00E+00	0.00E+00	4.70E-04
0.00E+00	0.00E+00	4.41E-04
0.00E+00	0.00E+00	4.14E-04
0.00E+00	0.00E+00	3.89E-04
0.00E+00	0.00E+00	3.66E-04
0.00E+00	0.00E+00	3.45E-04
0.00E+00	0.00E+00	3.26E-04
0.00E+00	0.00E+00	3.08E-04
0.00E+00	0.00E+00	2.91E-04
0.00E+00	0.00E+00	2.76E-04
0.00E+00	0.00E+00	2.62E-04
0.00E+00	0.00E+00	2.85E-04
0.00E+00	0.00E+00	3.02E-04
0.00E+00	0.00E+00	3.22E-04
0.00E+00	0.00E+00	3.43E-04
0.00E+00	0.00E+00	3.67E-04

0.00E+00	0.00E+00	3.93E-04
0.00E+00	0.00E+00	4.23E-04
0.00E+00	0.00E+00	4.55E-04
0.00E+00	0.00E+00	1.29E-03
0.00E+00	0.00E+00	1.40E-03
0.00E+00	0.00E+00	1.49E-03
0.00E+00	0.00E+00	1.57E-03
0.00E+00	0.00E+00	1.63E-03
0.00E+00	0.00E+00	1.66E-03
0.00E+00	0.00E+00	1.66E-03
0.00E+00	0.00E+00	1.64E-03
0.00E+00	0.00E+00	5.23E-04
0.00E+00	0.00E+00	4.87E-04
0.00E+00	0.00E+00	4.55E-04
0.00E+00	0.00E+00	4.26E-04
0.00E+00	0.00E+00	3.99E-04
0.00E+00	0.00E+00	3.75E-04
0.00E+00	0.00E+00	3.52E-04
0.00E+00	0.00E+00	3.31E-04
0.00E+00	0.00E+00	3.13E-04
0.00E+00	0.00E+00	2.96E-04
0.00E+00	0.00E+00	2.80E-04
0.00E+00	0.00E+00	2.66E-04
0.00E+00	0.00E+00	2.92E-04
0.00E+00	0.00E+00	3.11E-04
0.00E+00	0.00E+00	3.32E-04
0.00E+00	0.00E+00	3.55E-04
0.00E+00	0.00E+00	3.80E-04
0.00E+00	0.00E+00	4.09E-04
0.00E+00	0.00E+00	4.41E-04
0.00E+00	0.00E+00	4.77E-04
0.00E+00	0.00E+00	5.17E-04
0.00E+00	0.00E+00	1.67E-03
0.00E+00	0.00E+00	1.81E-03
0.00E+00	0.00E+00	1.92E-03
0.00E+00	0.00E+00	2.00E-03
0.00E+00	0.00E+00	2.04E-03
0.00E+00	0.00E+00	2.04E-03
0.00E+00	0.00E+00	1.99E-03
0.00E+00	0.00E+00	4.69E-04
0.00E+00	0.00E+00	4.38E-04
0.00E+00	0.00E+00	4.09E-04
0.00E+00	0.00E+00	3.83E-04
0.00E+00	0.00E+00	3.59E-04

0.00E+00	0.00E+00	3.37E-04
0.00E+00	0.00E+00	3.18E-04
0.00E+00	0.00E+00	3.01E-04
0.00E+00	0.00E+00	2.84E-04
0.00E+00	0.00E+00	2.69E-04
0.00E+00	0.00E+00	3.00E-04
0.00E+00	0.00E+00	3.20E-04
0.00E+00	0.00E+00	3.42E-04
0.00E+00	0.00E+00	3.66E-04
0.00E+00	0.00E+00	3.94E-04
0.00E+00	0.00E+00	4.25E-04
0.00E+00	0.00E+00	4.60E-04
0.00E+00	0.00E+00	4.99E-04
0.00E+00	0.00E+00	5.44E-04
0.00E+00	0.00E+00	2.03E-03
0.00E+00	0.00E+00	2.23E-03
0.00E+00	0.00E+00	2.41E-03
0.00E+00	0.00E+00	2.52E-03
0.00E+00	0.00E+00	2.58E-03
0.00E+00	0.00E+00	2.56E-03
0.00E+00	0.00E+00	2.48E-03
0.00E+00	0.00E+00	4.83E-04
0.00E+00	0.00E+00	4.49E-04
0.00E+00	0.00E+00	4.19E-04
0.00E+00	0.00E+00	3.91E-04
0.00E+00	0.00E+00	3.67E-04
0.00E+00	0.00E+00	3.44E-04
0.00E+00	0.00E+00	3.23E-04
0.00E+00	0.00E+00	3.05E-04
0.00E+00	0.00E+00	2.88E-04
0.00E+00	0.00E+00	2.73E-04
0.00E+00	0.00E+00	3.06E-04
0.00E+00	0.00E+00	3.28E-04
0.00E+00	0.00E+00	3.52E-04
0.00E+00	0.00E+00	3.78E-04
0.00E+00	0.00E+00	4.07E-04
0.00E+00	0.00E+00	4.40E-04
0.00E+00	0.00E+00	4.78E-04
0.00E+00	0.00E+00	5.21E-04
0.00E+00	0.00E+00	5.70E-04
0.00E+00	0.00E+00	6.27E-04
0.00E+00	0.00E+00	2.85E-03
0.00E+00	0.00E+00	3.13E-03
0.00E+00	0.00E+00	3.31E-03

0.00E+00	0.00E+00	3.39E-03
0.00E+00	0.00E+00	3.33E-03
0.00E+00	0.00E+00	3.16E-03
0.00E+00	0.00E+00	3.13E-04
0.00E+00	0.00E+00	3.35E-04
0.00E+00	0.00E+00	3.60E-04
0.00E+00	0.00E+00	3.88E-04
0.00E+00	0.00E+00	4.19E-04
0.00E+00	0.00E+00	4.55E-04
0.00E+00	0.00E+00	4.96E-04
0.00E+00	0.00E+00	5.43E-04
0.00E+00	0.00E+00	5.97E-04
0.00E+00	0.00E+00	6.60E-04
0.00E+00	0.00E+00	3.76E-03
0.00E+00	0.00E+00	4.26E-03
0.00E+00	0.00E+00	4.60E-03
0.00E+00	0.00E+00	4.70E-03
0.00E+00	0.00E+00	4.53E-03
0.00E+00	0.00E+00	4.16E-03
0.00E+00	0.00E+00	3.18E-04
0.00E+00	0.00E+00	3.42E-04
0.00E+00	0.00E+00	3.68E-04
0.00E+00	0.00E+00	3.98E-04
0.00E+00	0.00E+00	4.31E-04
0.00E+00	0.00E+00	4.69E-04
0.00E+00	0.00E+00	5.13E-04
0.00E+00	0.00E+00	5.64E-04
0.00E+00	0.00E+00	6.22E-04
0.00E+00	0.00E+00	6.91E-04
0.00E+00	0.00E+00	5.77E-04
0.00E+00	0.00E+00	5.30E-04
0.00E+00	0.00E+00	4.88E-04
0.00E+00	0.00E+00	4.51E-04
0.00E+00	0.00E+00	4.18E-04
0.00E+00	0.00E+00	3.89E-04
0.00E+00	0.00E+00	3.63E-04
0.00E+00	0.00E+00	3.40E-04
0.00E+00	0.00E+00	3.19E-04
0.00E+00	0.00E+00	3.00E-04
0.00E+00	0.00E+00	2.83E-04
0.00E+00	0.00E+00	2.67E-04
0.00E+00	0.00E+00	2.53E-04
0.00E+00	0.00E+00	2.39E-04
0.00E+00	0.00E+00	2.27E-04

0.00E+00	0.00E+00	5.90E-04
0.00E+00	0.00E+00	5.40E-04
0.00E+00	0.00E+00	4.96E-04
0.00E+00	0.00E+00	4.58E-04
0.00E+00	0.00E+00	4.24E-04
0.00E+00	0.00E+00	3.94E-04
0.00E+00	0.00E+00	3.67E-04
0.00E+00	0.00E+00	3.44E-04
0.00E+00	0.00E+00	3.22E-04
0.00E+00	0.00E+00	3.03E-04
0.00E+00	0.00E+00	2.85E-04
0.00E+00	0.00E+00	2.69E-04
0.00E+00	0.00E+00	2.55E-04
0.00E+00	0.00E+00	2.41E-04
0.00E+00	0.00E+00	2.29E-04
0.00E+00	0.00E+00	6.01E-04
0.00E+00	0.00E+00	5.49E-04
0.00E+00	0.00E+00	5.04E-04
0.00E+00	0.00E+00	4.64E-04
0.00E+00	0.00E+00	4.29E-04
0.00E+00	0.00E+00	3.99E-04
0.00E+00	0.00E+00	3.71E-04
0.00E+00	0.00E+00	3.47E-04
0.00E+00	0.00E+00	3.25E-04
0.00E+00	0.00E+00	3.05E-04
0.00E+00	0.00E+00	2.87E-04
0.00E+00	0.00E+00	2.72E-04
0.00E+00	0.00E+00	2.57E-04
0.00E+00	0.00E+00	2.43E-04
0.00E+00	0.00E+00	2.31E-04
0.00E+00	0.00E+00	6.13E-04
0.00E+00	0.00E+00	5.58E-04
0.00E+00	0.00E+00	5.12E-04
0.00E+00	0.00E+00	4.71E-04
0.00E+00	0.00E+00	4.35E-04
0.00E+00	0.00E+00	4.03E-04
0.00E+00	0.00E+00	3.75E-04
0.00E+00	0.00E+00	3.50E-04
0.00E+00	0.00E+00	3.28E-04
0.00E+00	0.00E+00	3.08E-04
0.00E+00	0.00E+00	2.90E-04
0.00E+00	0.00E+00	2.74E-04
0.00E+00	0.00E+00	2.59E-04
0.00E+00	0.00E+00	2.45E-04

0.00E+00	0.00E+00	2.32E-04
0.00E+00	0.00E+00	6.24E-04
0.00E+00	0.00E+00	5.68E-04
0.00E+00	0.00E+00	5.19E-04
0.00E+00	0.00E+00	4.77E-04
0.00E+00	0.00E+00	4.40E-04
0.00E+00	0.00E+00	4.07E-04
0.00E+00	0.00E+00	3.79E-04
0.00E+00	0.00E+00	3.53E-04
0.00E+00	0.00E+00	3.30E-04
0.00E+00	0.00E+00	3.10E-04
0.00E+00	0.00E+00	2.92E-04
0.00E+00	0.00E+00	2.75E-04
0.00E+00	0.00E+00	2.60E-04
0.00E+00	0.00E+00	2.47E-04
0.00E+00	0.00E+00	2.34E-04
0.00E+00	0.00E+00	6.35E-04
0.00E+00	0.00E+00	5.77E-04
0.00E+00	0.00E+00	5.26E-04
0.00E+00	0.00E+00	4.83E-04
0.00E+00	0.00E+00	4.45E-04
0.00E+00	0.00E+00	4.12E-04
0.00E+00	0.00E+00	3.83E-04
0.00E+00	0.00E+00	3.56E-04
0.00E+00	0.00E+00	3.33E-04
0.00E+00	0.00E+00	3.12E-04
0.00E+00	0.00E+00	2.94E-04
0.00E+00	0.00E+00	2.77E-04
0.00E+00	0.00E+00	2.62E-04
0.00E+00	0.00E+00	2.48E-04
0.00E+00	0.00E+00	2.35E-04
0.00E+00	0.00E+00	6.45E-04
0.00E+00	0.00E+00	5.86E-04
0.00E+00	0.00E+00	5.34E-04
0.00E+00	0.00E+00	4.90E-04
0.00E+00	0.00E+00	4.51E-04
0.00E+00	0.00E+00	4.17E-04
0.00E+00	0.00E+00	3.87E-04
0.00E+00	0.00E+00	3.60E-04
0.00E+00	0.00E+00	3.36E-04
0.00E+00	0.00E+00	3.15E-04
0.00E+00	0.00E+00	2.96E-04
0.00E+00	0.00E+00	2.79E-04
0.00E+00	0.00E+00	2.63E-04

0.00E+00	0.00E+00	2.49E-04
0.00E+00	0.00E+00	2.36E-04
0.00E+00	0.00E+00	6.56E-04
0.00E+00	0.00E+00	5.94E-04
0.00E+00	0.00E+00	5.42E-04
0.00E+00	0.00E+00	4.97E-04
0.00E+00	0.00E+00	4.57E-04
0.00E+00	0.00E+00	4.22E-04
0.00E+00	0.00E+00	3.91E-04
0.00E+00	0.00E+00	3.64E-04
0.00E+00	0.00E+00	3.40E-04
0.00E+00	0.00E+00	3.18E-04
0.00E+00	0.00E+00	2.99E-04
0.00E+00	0.00E+00	2.81E-04
0.00E+00	0.00E+00	2.65E-04
0.00E+00	0.00E+00	2.50E-04
0.00E+00	0.00E+00	2.37E-04
0.00E+00	0.00E+00	3.43E-04
0.00E+00	0.00E+00	3.70E-04
0.00E+00	0.00E+00	4.01E-04
0.00E+00	0.00E+00	4.37E-04
0.00E+00	0.00E+00	6.66E-04
0.00E+00	0.00E+00	6.03E-04
0.00E+00	0.00E+00	5.50E-04
0.00E+00	0.00E+00	5.03E-04
0.00E+00	0.00E+00	4.62E-04
0.00E+00	0.00E+00	4.27E-04
0.00E+00	0.00E+00	3.95E-04
0.00E+00	0.00E+00	3.68E-04
0.00E+00	0.00E+00	3.43E-04
0.00E+00	0.00E+00	3.21E-04
0.00E+00	0.00E+00	3.02E-04
0.00E+00	0.00E+00	2.84E-04
0.00E+00	0.00E+00	2.67E-04
0.00E+00	0.00E+00	2.53E-04
0.00E+00	0.00E+00	2.39E-04
0.00E+00	0.00E+00	3.42E-04
0.00E+00	0.00E+00	3.69E-04
0.00E+00	0.00E+00	4.00E-04
0.00E+00	0.00E+00	4.35E-04
0.00E+00	0.00E+00	4.76E-04
0.00E+00	0.00E+00	6.75E-04
0.00E+00	0.00E+00	6.11E-04
0.00E+00	0.00E+00	5.57E-04

0.00E+00	0.00E+00	5.09E-04
0.00E+00	0.00E+00	4.68E-04
0.00E+00	0.00E+00	4.32E-04
0.00E+00	0.00E+00	4.00E-04
0.00E+00	0.00E+00	3.72E-04
0.00E+00	0.00E+00	3.47E-04
0.00E+00	0.00E+00	3.24E-04
0.00E+00	0.00E+00	3.04E-04
0.00E+00	0.00E+00	2.86E-04
0.00E+00	0.00E+00	2.70E-04
0.00E+00	0.00E+00	2.55E-04
0.00E+00	0.00E+00	2.41E-04
0.00E+00	0.00E+00	3.41E-04
0.00E+00	0.00E+00	3.67E-04
0.00E+00	0.00E+00	3.98E-04
0.00E+00	0.00E+00	4.33E-04
0.00E+00	0.00E+00	4.73E-04
0.00E+00	0.00E+00	6.84E-04
0.00E+00	0.00E+00	6.19E-04
0.00E+00	0.00E+00	5.64E-04
0.00E+00	0.00E+00	5.16E-04
0.00E+00	0.00E+00	4.74E-04
0.00E+00	0.00E+00	4.37E-04
0.00E+00	0.00E+00	4.04E-04
0.00E+00	0.00E+00	3.76E-04
0.00E+00	0.00E+00	3.50E-04
0.00E+00	0.00E+00	3.28E-04
0.00E+00	0.00E+00	3.07E-04
0.00E+00	0.00E+00	2.89E-04
0.00E+00	0.00E+00	2.72E-04
0.00E+00	0.00E+00	2.57E-04
0.00E+00	0.00E+00	2.43E-04
0.00E+00	0.00E+00	3.38E-04
0.00E+00	0.00E+00	3.65E-04
0.00E+00	0.00E+00	3.95E-04
0.00E+00	0.00E+00	4.28E-04
0.00E+00	0.00E+00	4.68E-04
0.00E+00	0.00E+00	5.14E-04
0.00E+00	0.00E+00	6.91E-04
0.00E+00	0.00E+00	6.26E-04
0.00E+00	0.00E+00	5.70E-04
0.00E+00	0.00E+00	5.21E-04
0.00E+00	0.00E+00	4.79E-04
0.00E+00	0.00E+00	4.42E-04

0.00E+00	0.00E+00	4.09E-04
0.00E+00	0.00E+00	3.80E-04
0.00E+00	0.00E+00	3.54E-04
0.00E+00	0.00E+00	3.31E-04
0.00E+00	0.00E+00	3.10E-04
0.00E+00	0.00E+00	2.92E-04
0.00E+00	0.00E+00	2.75E-04
0.00E+00	0.00E+00	2.59E-04
0.00E+00	0.00E+00	2.46E-04
0.00E+00	0.00E+00	3.36E-04
0.00E+00	0.00E+00	3.61E-04
0.00E+00	0.00E+00	3.91E-04
0.00E+00	0.00E+00	4.22E-04
0.00E+00	0.00E+00	4.59E-04
0.00E+00	0.00E+00	5.04E-04
0.00E+00	0.00E+00	5.57E-04
0.00E+00	0.00E+00	6.98E-04
0.00E+00	0.00E+00	6.32E-04
0.00E+00	0.00E+00	5.76E-04
0.00E+00	0.00E+00	5.27E-04
0.00E+00	0.00E+00	4.84E-04
0.00E+00	0.00E+00	4.46E-04
0.00E+00	0.00E+00	4.13E-04
0.00E+00	0.00E+00	3.84E-04
0.00E+00	0.00E+00	3.57E-04
0.00E+00	0.00E+00	3.34E-04
0.00E+00	0.00E+00	3.13E-04
0.00E+00	0.00E+00	2.94E-04
0.00E+00	0.00E+00	2.77E-04
0.00E+00	0.00E+00	2.62E-04
0.00E+00	0.00E+00	2.48E-04
0.00E+00	0.00E+00	3.32E-04
0.00E+00	0.00E+00	3.57E-04
0.00E+00	0.00E+00	3.86E-04
0.00E+00	0.00E+00	4.16E-04
0.00E+00	0.00E+00	4.53E-04
0.00E+00	0.00E+00	4.95E-04
0.00E+00	0.00E+00	5.45E-04
0.00E+00	0.00E+00	6.07E-04
0.00E+00	0.00E+00	7.02E-04
0.00E+00	0.00E+00	6.37E-04
0.00E+00	0.00E+00	5.80E-04
0.00E+00	0.00E+00	5.31E-04
0.00E+00	0.00E+00	4.88E-04

0.00E+00	0.00E+00	4.50E-04
0.00E+00	0.00E+00	4.17E-04
0.00E+00	0.00E+00	3.87E-04
0.00E+00	0.00E+00	3.61E-04
0.00E+00	0.00E+00	3.37E-04
0.00E+00	0.00E+00	3.16E-04
0.00E+00	0.00E+00	2.97E-04
0.00E+00	0.00E+00	2.80E-04
0.00E+00	0.00E+00	2.64E-04
0.00E+00	0.00E+00	2.50E-04
0.00E+00	0.00E+00	3.28E-04
0.00E+00	0.00E+00	3.52E-04
0.00E+00	0.00E+00	3.80E-04
0.00E+00	0.00E+00	4.12E-04
0.00E+00	0.00E+00	4.46E-04
0.00E+00	0.00E+00	4.88E-04
0.00E+00	0.00E+00	5.36E-04
0.00E+00	0.00E+00	5.95E-04
0.00E+00	0.00E+00	6.61E-04
0.00E+00	0.00E+00	7.04E-04
0.00E+00	0.00E+00	6.40E-04
0.00E+00	0.00E+00	5.84E-04
0.00E+00	0.00E+00	5.35E-04
0.00E+00	0.00E+00	4.92E-04
0.00E+00	0.00E+00	4.54E-04
0.00E+00	0.00E+00	4.20E-04
0.00E+00	0.00E+00	3.91E-04
0.00E+00	0.00E+00	3.64E-04
0.00E+00	0.00E+00	3.40E-04
0.00E+00	0.00E+00	3.19E-04
0.00E+00	0.00E+00	2.99E-04
0.00E+00	0.00E+00	2.82E-04
0.00E+00	0.00E+00	2.66E-04
0.00E+00	0.00E+00	2.52E-04
0.00E+00	0.00E+00	3.22E-04
0.00E+00	0.00E+00	3.46E-04
0.00E+00	0.00E+00	3.73E-04
0.00E+00	0.00E+00	4.03E-04
0.00E+00	0.00E+00	4.39E-04
0.00E+00	0.00E+00	4.79E-04
0.00E+00	0.00E+00	5.26E-04
0.00E+00	0.00E+00	5.80E-04
0.00E+00	0.00E+00	6.42E-04
0.00E+00	0.00E+00	7.03E-04

0.00E+00	0.00E+00	6.40E-04
0.00E+00	0.00E+00	5.85E-04
0.00E+00	0.00E+00	5.37E-04
0.00E+00	0.00E+00	4.94E-04
0.00E+00	0.00E+00	4.56E-04
0.00E+00	0.00E+00	4.23E-04
0.00E+00	0.00E+00	3.93E-04
0.00E+00	0.00E+00	3.67E-04
0.00E+00	0.00E+00	3.43E-04
0.00E+00	0.00E+00	3.21E-04
0.00E+00	0.00E+00	3.02E-04
0.00E+00	0.00E+00	2.84E-04
0.00E+00	0.00E+00	2.68E-04
0.00E+00	0.00E+00	2.54E-04
0.00E+00	0.00E+00	3.16E-04
0.00E+00	0.00E+00	3.39E-04
0.00E+00	0.00E+00	3.65E-04
0.00E+00	0.00E+00	3.94E-04
0.00E+00	0.00E+00	4.29E-04
0.00E+00	0.00E+00	4.67E-04
0.00E+00	0.00E+00	5.12E-04
0.00E+00	0.00E+00	5.63E-04
0.00E+00	0.00E+00	6.21E-04
0.00E+00	0.00E+00	6.90E-04
0.00E+00	0.00E+00	6.99E-04
0.00E+00	0.00E+00	6.38E-04
0.00E+00	0.00E+00	5.85E-04
0.00E+00	0.00E+00	5.37E-04
0.00E+00	0.00E+00	4.95E-04
0.00E+00	0.00E+00	4.58E-04
0.00E+00	0.00E+00	4.25E-04
0.00E+00	0.00E+00	3.95E-04
0.00E+00	0.00E+00	3.69E-04
0.00E+00	0.00E+00	3.45E-04
0.00E+00	0.00E+00	3.23E-04
0.00E+00	0.00E+00	3.04E-04
0.00E+00	0.00E+00	2.86E-04
0.00E+00	0.00E+00	2.70E-04
0.00E+00	0.00E+00	2.56E-04
0.00E+00	0.00E+00	3.10E-04
0.00E+00	0.00E+00	3.32E-04
0.00E+00	0.00E+00	3.57E-04
0.00E+00	0.00E+00	3.85E-04
0.00E+00	0.00E+00	4.18E-04

0.00E+00	0.00E+00	4.55E-04
0.00E+00	0.00E+00	4.98E-04
0.00E+00	0.00E+00	5.44E-04
0.00E+00	0.00E+00	5.97E-04
0.00E+00	0.00E+00	6.62E-04
0.00E+00	0.00E+00	7.35E-04
0.00E+00	0.00E+00	6.92E-04
0.00E+00	0.00E+00	6.34E-04
0.00E+00	0.00E+00	5.82E-04
0.00E+00	0.00E+00	5.36E-04
0.00E+00	0.00E+00	4.95E-04
0.00E+00	0.00E+00	4.58E-04
0.00E+00	0.00E+00	4.26E-04
0.00E+00	0.00E+00	3.97E-04
0.00E+00	0.00E+00	3.70E-04
0.00E+00	0.00E+00	3.47E-04
0.00E+00	0.00E+00	3.25E-04
0.00E+00	0.00E+00	3.06E-04
0.00E+00	0.00E+00	2.88E-04
0.00E+00	0.00E+00	2.72E-04
0.00E+00	0.00E+00	2.57E-04
0.00E+00	0.00E+00	3.03E-04
0.00E+00	0.00E+00	3.24E-04
0.00E+00	0.00E+00	3.49E-04
0.00E+00	0.00E+00	3.76E-04
0.00E+00	0.00E+00	4.07E-04
0.00E+00	0.00E+00	4.42E-04
0.00E+00	0.00E+00	4.83E-04
0.00E+00	0.00E+00	5.25E-04
0.00E+00	0.00E+00	5.74E-04
0.00E+00	0.00E+00	6.33E-04
0.00E+00	0.00E+00	6.99E-04
0.00E+00	0.00E+00	6.82E-04
0.00E+00	0.00E+00	6.26E-04
0.00E+00	0.00E+00	5.77E-04
0.00E+00	0.00E+00	5.33E-04
0.00E+00	0.00E+00	4.93E-04
0.00E+00	0.00E+00	4.57E-04
0.00E+00	0.00E+00	4.25E-04
0.00E+00	0.00E+00	3.97E-04
0.00E+00	0.00E+00	2.94E-04
0.00E+00	0.00E+00	3.15E-04
0.00E+00	0.00E+00	3.39E-04
0.00E+00	0.00E+00	3.66E-04

0.00E+00	0.00E+00	3.95E-04
0.00E+00	0.00E+00	4.29E-04
0.00E+00	0.00E+00	4.66E-04
0.00E+00	0.00E+00	5.07E-04
0.00E+00	0.00E+00	5.54E-04
0.00E+00	0.00E+00	6.06E-04
0.00E+00	0.00E+00	6.61E-04
0.00E+00	0.00E+00	6.68E-04
0.00E+00	0.00E+00	6.16E-04
0.00E+00	0.00E+00	5.69E-04
0.00E+00	0.00E+00	5.27E-04
0.00E+00	0.00E+00	4.89E-04
0.00E+00	0.00E+00	4.55E-04
0.00E+00	0.00E+00	4.24E-04
0.00E+00	0.00E+00	3.96E-04
0.00E+00	0.00E+00	2.86E-04
0.00E+00	0.00E+00	3.06E-04
0.00E+00	0.00E+00	3.30E-04
0.00E+00	0.00E+00	3.56E-04
0.00E+00	0.00E+00	3.84E-04
0.00E+00	0.00E+00	4.15E-04
0.00E+00	0.00E+00	4.48E-04
0.00E+00	0.00E+00	4.89E-04
0.00E+00	0.00E+00	5.30E-04
0.00E+00	0.00E+00	5.76E-04
0.00E+00	0.00E+00	6.26E-04
0.00E+00	0.00E+00	6.84E-04
0.00E+00	0.00E+00	6.51E-04
0.00E+00	0.00E+00	6.03E-04
0.00E+00	0.00E+00	5.59E-04
0.00E+00	0.00E+00	5.20E-04
0.00E+00	0.00E+00	4.84E-04
0.00E+00	0.00E+00	4.51E-04
0.00E+00	0.00E+00	4.21E-04
0.00E+00	0.00E+00	3.94E-04
0.00E+00	0.00E+00	2.81E-04
0.00E+00	0.00E+00	3.00E-04
0.00E+00	0.00E+00	3.23E-04
0.00E+00	0.00E+00	3.47E-04
0.00E+00	0.00E+00	3.72E-04
0.00E+00	0.00E+00	4.00E-04
0.00E+00	0.00E+00	4.32E-04
0.00E+00	0.00E+00	4.67E-04
0.00E+00	0.00E+00	5.05E-04

0.00E+00	0.00E+00	5.47E-04
0.00E+00	0.00E+00	5.94E-04
0.00E+00	0.00E+00	6.45E-04
0.00E+00	0.00E+00	6.32E-04
0.00E+00	0.00E+00	5.88E-04
0.00E+00	0.00E+00	5.47E-04
0.00E+00	0.00E+00	5.10E-04
0.00E+00	0.00E+00	4.76E-04
0.00E+00	0.00E+00	4.45E-04
0.00E+00	0.00E+00	4.17E-04
0.00E+00	0.00E+00	3.91E-04
0.00E+00	0.00E+00	2.77E-04
0.00E+00	0.00E+00	2.95E-04
0.00E+00	0.00E+00	3.16E-04
0.00E+00	0.00E+00	3.37E-04
0.00E+00	0.00E+00	3.62E-04
0.00E+00	0.00E+00	3.88E-04
0.00E+00	0.00E+00	4.16E-04
0.00E+00	0.00E+00	4.47E-04
0.00E+00	0.00E+00	4.81E-04
0.00E+00	0.00E+00	5.21E-04
0.00E+00	0.00E+00	5.63E-04
0.00E+00	0.00E+00	6.08E-04
0.00E+00	0.00E+00	6.10E-04
0.00E+00	0.00E+00	5.70E-04
0.00E+00	0.00E+00	5.33E-04
0.00E+00	0.00E+00	4.99E-04
0.00E+00	0.00E+00	4.68E-04
0.00E+00	0.00E+00	4.38E-04
0.00E+00	0.00E+00	4.12E-04
0.00E+00	0.00E+00	3.87E-04
0.00E+00	0.00E+00	3.64E-04
0.00E+00	0.00E+00	3.43E-04
0.00E+00	0.00E+00	3.24E-04
0.00E+00	0.00E+00	3.06E-04
0.00E+00	0.00E+00	2.90E-04
0.00E+00	0.00E+00	2.75E-04
0.00E+00	0.00E+00	2.61E-04
0.00E+00	0.00E+00	2.72E-04
0.00E+00	0.00E+00	2.88E-04
0.00E+00	0.00E+00	3.08E-04
0.00E+00	0.00E+00	3.29E-04
0.00E+00	0.00E+00	3.51E-04
0.00E+00	0.00E+00	3.76E-04

0.00E+00	0.00E+00	4.02E-04
0.00E+00	0.00E+00	5.87E-04
0.00E+00	0.00E+00	5.51E-04
0.00E+00	0.00E+00	5.17E-04
0.00E+00	0.00E+00	4.86E-04
0.00E+00	0.00E+00	4.57E-04
0.00E+00	0.00E+00	4.30E-04
0.00E+00	0.00E+00	4.05E-04
0.00E+00	0.00E+00	3.82E-04
0.00E+00	0.00E+00	3.60E-04
0.00E+00	0.00E+00	3.40E-04
0.00E+00	0.00E+00	3.22E-04
0.00E+00	0.00E+00	3.05E-04
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0.00E+00	0.00E+00	2.74E-04
0.00E+00	0.00E+00	2.60E-04
0.00E+00	0.00E+00	9.93E-04
0.00E+00	0.00E+00	9.84E-04
0.00E+00	0.00E+00	9.69E-04
0.00E+00	0.00E+00	5.62E-04
0.00E+00	0.00E+00	5.30E-04
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0.00E+00	0.00E+00	3.36E-04
0.00E+00	0.00E+00	3.19E-04
0.00E+00	0.00E+00	3.02E-04
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0.00E+00	0.00E+00	2.73E-04
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0.00E+00	0.00E+00	5.09E-04
0.00E+00	0.00E+00	4.82E-04
0.00E+00	0.00E+00	4.57E-04
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0.00E+00	0.00E+00	4.10E-04
0.00E+00	0.00E+00	3.88E-04
0.00E+00	0.00E+00	3.68E-04
0.00E+00	0.00E+00	3.49E-04
0.00E+00	0.00E+00	3.31E-04

0.00E+00	0.00E+00	3.15E-04
0.00E+00	0.00E+00	2.99E-04
0.00E+00	0.00E+00	2.84E-04
0.00E+00	0.00E+00	2.71E-04
0.00E+00	0.00E+00	2.58E-04
0.00E+00	0.00E+00	2.50E-04
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0.00E+00	0.00E+00	7.67E-04
0.00E+00	0.00E+00	7.68E-04
0.00E+00	0.00E+00	7.60E-04
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0.00E+00	0.00E+00	4.63E-04
0.00E+00	0.00E+00	4.41E-04
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0.00E+00	0.00E+00	3.98E-04
0.00E+00	0.00E+00	3.79E-04
0.00E+00	0.00E+00	3.60E-04
0.00E+00	0.00E+00	3.42E-04
0.00E+00	0.00E+00	3.26E-04
0.00E+00	0.00E+00	3.10E-04
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0.00E+00	0.00E+00	2.78E-04
0.00E+00	0.00E+00	2.65E-04
0.00E+00	0.00E+00	2.53E-04
0.00E+00	0.00E+00	2.38E-04

0.00E+00	0.00E+00	2.49E-04
0.00E+00	0.00E+00	6.13E-04
0.00E+00	0.00E+00	2.32E-04
0.00E+00	0.00E+00	2.43E-04
0.00E+00	0.00E+00	5.54E-04
0.00E+00	0.00E+00	2.12E-04
0.00E+00	0.00E+00	2.24E-04
0.00E+00	0.00E+00	2.04E-04
0.00E+00	0.00E+00	2.16E-04
0.00E+00	0.00E+00	3.40E-04
0.00E+00	0.00E+00	3.35E-04
0.00E+00	0.00E+00	3.21E-04
0.00E+00	0.00E+00	3.17E-04

HARP2 - HRACalc (dated 19044) 4/16/2020 3:56:42 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: NCChronic
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER
Exposure duration are only adjusted for cancer assessments

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: LongTerm24HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
NOTE: Exposure duration (i.e., start age, end age, ED, & FAH) are only adjusted for cancer assessments.

****

CurciUnmitChronicOutput

SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.02
Soil mixing depth (m): 0.01
Dermal climate: Mixed

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed
Calculating chronic risk
Chronic risk breakdown by pollutant and receptor saved to:
C:\Users\swang\Documents\1. Projects\10773 Retail Development Advisors - Murrieta EIR\HRA\HARP2\CurciConUnmit\hra\CurciUnmitChronicNCChronicRisk.csv
Chronic risk total by receptor saved to: C:\Users\swang\Documents\1. Projects\10773 Retail Development Advisors - Murrieta EIR\HRA\HARP2\CurciConUnmit\hra\CurciUnmitChronicNCChronicRiskSumByRec.csv
HRA ran successfully

```
** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 9.8.3
** Lakes Environmental Software Inc.
** Date: 4/16/2020
** File: F:\Lakes\Curci\CurciVineyardIIICon\CurciVineyardIIICon.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE Curci Vineyard III Construction HRA
   MODELOPT DFAULT CONC
   AVERTIME 1 PERIOD
   URBANOPT 2189641 Riverside
   POLLUTID PM_10
   RUNORNOT RUN
   ERRORFIL CurciVineyardIIICon.err
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = EQUIP
** DESCRSRC Off-road Equipment DPM Emissions
** PREFIX
** Length of Side = 11.63
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 2.33
** SZINIT = 1.08
** Nodes = 6
** 484003.836, 3717643.799, 470.59, 5.00, 5.41
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** 484065.485, 3717945.441, 468.59, 5.00, 5.41
** 484048.605, 3717953.514, 468.58, 5.00, 5.41
** 483962.736, 3717691.504, 467.55, 5.00, 5.41
** 483983.286, 3717662.881, 470.42, 5.00, 5.41
** 484036.862, 3717876.452, 468.30, 5.00, 5.41
** ----------------------------------------------------------------
   LOCATION L0000001     VOLUME   484005.000 3717649.496 471.00
   LOCATION L0000002     VOLUME   484007.329 3717660.890 471.39
   LOCATION L0000003     VOLUME   484009.658 3717672.285 471.43
   LOCATION L0000004     VOLUME   484011.986 3717683.679 471.39
   LOCATION L0000005     VOLUME   484014.315 3717695.074 471.47
   LOCATION L0000006     VOLUME   484016.644 3717706.468 471.40
   LOCATION L0000007     VOLUME   484018.973 3717717.863 471.28
   LOCATION L0000008     VOLUME   484021.302 3717729.257 471.06
   LOCATION L0000009     VOLUME   484023.630 3717740.652 470.82
   LOCATION L0000010     VOLUME   484025.959 3717752.046 470.52
   LOCATION L0000011     VOLUME   484028.288 3717763.441 469.95
   LOCATION L0000012     VOLUME   484030.617 3717774.835 469.58
   LOCATION L0000013     VOLUME   484032.945 3717786.229 469.37
   LOCATION L0000014     VOLUME   484035.274 3717797.624 469.24
   LOCATION L0000015     VOLUME   484037.603 3717809.018 469.36
   LOCATION L0000016     VOLUME   484039.932 3717820.413 469.37
   LOCATION L0000017     VOLUME   484042.261 3717831.807 469.36
   LOCATION L0000018     VOLUME   484044.589 3717843.202 469.49
   LOCATION L0000019     VOLUME   484046.918 3717854.596 469.35
   LOCATION L0000020     VOLUME   484049.247 3717865.991 469.46
   LOCATION L0000021     VOLUME   484051.576 3717877.385 469.33
   LOCATION L0000022     VOLUME   484053.905 3717888.780 469.49
   LOCATION L0000023     VOLUME   484056.233 3717900.174 469.16
   LOCATION L0000024     VOLUME   484058.562 3717911.568 468.95
   LOCATION L0000025     VOLUME   484060.891 3717922.963 468.71
   LOCATION L0000026     VOLUME   484063.220 3717934.357 468.58
   LOCATION L0000027     VOLUME   484065.199 3717945.578 468.60
   LOCATION L0000028     VOLUME   484054.707 3717950.596 468.50
   LOCATION L0000029     VOLUME   484047.090 3717948.891 468.49
   LOCATION L0000030     VOLUME   484043.468 3717937.839 468.33
   LOCATION L0000031     VOLUME   484039.846 3717926.788 467.79
   LOCATION L0000032     VOLUME   484036.224 3717915.736 467.56
   LOCATION L0000033     VOLUME   484032.602 3717904.684 467.34
   LOCATION L0000034     VOLUME   484028.980 3717893.633 467.53
   LOCATION L0000035     VOLUME   484025.358 3717882.581 468.02
   LOCATION L0000036     VOLUME   484021.736 3717871.530 467.45
   LOCATION L0000037     VOLUME   484018.114 3717860.478 467.38
   LOCATION L0000038     VOLUME   484014.492 3717849.426 467.38
   LOCATION L0000039     VOLUME   484010.870 3717838.375 467.34
   LOCATION L0000040     VOLUME   484007.248 3717827.323 467.21
   LOCATION L0000041     VOLUME   484003.626 3717816.271 467.26
   LOCATION L0000042     VOLUME   484000.004 3717805.220 467.13
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   LOCATION L0000043     VOLUME   483996.382 3717794.168 467.21
   LOCATION L0000044     VOLUME   483992.760 3717783.117 467.34
   LOCATION L0000045     VOLUME   483989.138 3717772.065 467.45
   LOCATION L0000046     VOLUME   483985.516 3717761.013 467.44
   LOCATION L0000047     VOLUME   483981.894 3717749.962 467.59
   LOCATION L0000048     VOLUME   483978.272 3717738.910 467.60
   LOCATION L0000049     VOLUME   483974.650 3717727.858 467.54
   LOCATION L0000050     VOLUME   483971.028 3717716.807 467.50
   LOCATION L0000051     VOLUME   483967.406 3717705.755 467.36
   LOCATION L0000052     VOLUME   483963.785 3717694.704 467.32
   LOCATION L0000053     VOLUME   483967.555 3717684.792 468.09
   LOCATION L0000054     VOLUME   483974.337 3717675.344 469.09
   LOCATION L0000055     VOLUME   483981.120 3717665.897 470.13
   LOCATION L0000056     VOLUME   483985.212 3717670.560 470.24
   LOCATION L0000057     VOLUME   483988.042 3717681.840 470.02
   LOCATION L0000058     VOLUME   483990.872 3717693.121 470.16
   LOCATION L0000059     VOLUME   483993.701 3717704.401 470.30
   LOCATION L0000060     VOLUME   483996.531 3717715.682 470.16
   LOCATION L0000061     VOLUME   483999.361 3717726.962 469.97
   LOCATION L0000062     VOLUME   484002.191 3717738.242 469.67
   LOCATION L0000063     VOLUME   484005.021 3717749.523 469.43
   LOCATION L0000064     VOLUME   484007.850 3717760.803 469.13
   LOCATION L0000065     VOLUME   484010.680 3717772.084 468.75
   LOCATION L0000066     VOLUME   484013.510 3717783.364 468.46
   LOCATION L0000067     VOLUME   484016.340 3717794.645 468.22
   LOCATION L0000068     VOLUME   484019.170 3717805.925 468.24
   LOCATION L0000069     VOLUME   484022.000 3717817.206 468.35
   LOCATION L0000070     VOLUME   484024.829 3717828.486 468.29
   LOCATION L0000071     VOLUME   484027.659 3717839.767 468.46
   LOCATION L0000072     VOLUME   484030.489 3717851.047 468.47
   LOCATION L0000073     VOLUME   484033.319 3717862.328 468.37
   LOCATION L0000074     VOLUME   484036.149 3717873.608 468.39
** End of LINE VOLUME Source ID = EQUIP
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = TRUCKS
** DESCRSRC Off-road Equipment DPM Emissions
** PREFIX
** Length of Side = 3.12
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 3.16
** SZINIT = 1.47
** Nodes = 6
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** 484065.485, 3717945.441, 468.59, 3.40, 1.45
** 484048.605, 3717953.514, 468.58, 3.40, 1.45
** 483962.736, 3717691.504, 467.55, 3.40, 1.45
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** 483983.286, 3717662.881, 470.42, 3.40, 1.45
** 484036.862, 3717876.452, 468.30, 3.40, 1.45
** ------------------------------------------------------------------
   LOCATION L0000075     VOLUME   484004.148 3717645.327 470.79
   LOCATION L0000076     VOLUME   484004.773 3717648.384 470.94
   LOCATION L0000077     VOLUME   484005.397 3717651.441 471.06
   LOCATION L0000078     VOLUME   484006.022 3717654.498 471.16
   LOCATION L0000079     VOLUME   484006.647 3717657.554 471.27
   LOCATION L0000080     VOLUME   484007.272 3717660.611 471.39
   LOCATION L0000081     VOLUME   484007.896 3717663.668 471.41
   LOCATION L0000082     VOLUME   484008.521 3717666.725 471.43
   LOCATION L0000083     VOLUME   484009.146 3717669.782 471.44
   LOCATION L0000084     VOLUME   484009.771 3717672.838 471.42
   LOCATION L0000085     VOLUME   484010.395 3717675.895 471.39
   LOCATION L0000086     VOLUME   484011.020 3717678.952 471.37
   LOCATION L0000087     VOLUME   484011.645 3717682.009 471.37
   LOCATION L0000088     VOLUME   484012.270 3717685.066 471.41
   LOCATION L0000089     VOLUME   484012.894 3717688.123 471.46
   LOCATION L0000090     VOLUME   484013.519 3717691.179 471.50
   LOCATION L0000091     VOLUME   484014.144 3717694.236 471.48
   LOCATION L0000092     VOLUME   484014.769 3717697.293 471.46
   LOCATION L0000093     VOLUME   484015.393 3717700.350 471.43
   LOCATION L0000094     VOLUME   484016.018 3717703.407 471.41
   LOCATION L0000095     VOLUME   484016.643 3717706.463 471.40
   LOCATION L0000096     VOLUME   484017.268 3717709.520 471.39
   LOCATION L0000097     VOLUME   484017.892 3717712.577 471.37
   LOCATION L0000098     VOLUME   484018.517 3717715.634 471.32
   LOCATION L0000099     VOLUME   484019.142 3717718.691 471.26
   LOCATION L0000100     VOLUME   484019.767 3717721.747 471.21
   LOCATION L0000101     VOLUME   484020.391 3717724.804 471.15
   LOCATION L0000102     VOLUME   484021.016 3717727.861 471.09
   LOCATION L0000103     VOLUME   484021.641 3717730.918 471.02
   LOCATION L0000104     VOLUME   484022.266 3717733.975 470.96
   LOCATION L0000105     VOLUME   484022.890 3717737.031 470.89
   LOCATION L0000106     VOLUME   484023.515 3717740.088 470.83
   LOCATION L0000107     VOLUME   484024.140 3717743.145 470.77
   LOCATION L0000108     VOLUME   484024.765 3717746.202 470.69
   LOCATION L0000109     VOLUME   484025.389 3717749.259 470.60
   LOCATION L0000110     VOLUME   484026.014 3717752.316 470.51
   LOCATION L0000111     VOLUME   484026.639 3717755.372 470.36
   LOCATION L0000112     VOLUME   484027.264 3717758.429 470.21
   LOCATION L0000113     VOLUME   484027.888 3717761.486 470.05
   LOCATION L0000114     VOLUME   484028.513 3717764.543 469.91
   LOCATION L0000115     VOLUME   484029.138 3717767.600 469.80
   LOCATION L0000116     VOLUME   484029.763 3717770.656 469.70
   LOCATION L0000117     VOLUME   484030.387 3717773.713 469.60
   LOCATION L0000118     VOLUME   484031.012 3717776.770 469.55
   LOCATION L0000119     VOLUME   484031.637 3717779.827 469.49
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LOCATION	L0000120	VOLUME	484032.262	3717782.884	469.44
LOCATION	L0000121	VOLUME	484032.886	3717785.940	469.38
LOCATION	L0000122	VOLUME	484033.511	3717788.997	469.32
LOCATION	L0000123	VOLUME	484034.136	3717792.054	469.26
LOCATION	L0000124	VOLUME	484034.761	3717795.111	469.23
LOCATION	L0000125	VOLUME	484035.385	3717798.168	469.25
LOCATION	L0000126	VOLUME	484036.010	3717801.224	469.27
LOCATION	L0000127	VOLUME	484036.635	3717804.281	469.29
LOCATION	L0000128	VOLUME	484037.260	3717807.338	469.33
LOCATION	L0000129	VOLUME	484037.884	3717810.395	469.38
LOCATION	L0000130	VOLUME	484038.509	3717813.452	469.42
LOCATION	L0000131	VOLUME	484039.134	3717816.509	469.41
LOCATION	L0000132	VOLUME	484039.759	3717819.565	469.38
LOCATION	L0000133	VOLUME	484040.383	3717822.622	469.36
LOCATION	L0000134	VOLUME	484041.008	3717825.679	469.35
LOCATION	L0000135	VOLUME	484041.633	3717828.736	469.36
LOCATION	L0000136	VOLUME	484042.258	3717831.793	469.36
LOCATION	L0000137	VOLUME	484042.882	3717834.849	469.36
LOCATION	L0000138	VOLUME	484043.507	3717837.906	469.41
LOCATION	L0000139	VOLUME	484044.132	3717840.963	469.46
LOCATION	L0000140	VOLUME	484044.757	3717844.020	469.50
LOCATION	L0000141	VOLUME	484045.381	3717847.077	469.48
LOCATION	L0000142	VOLUME	484046.006	3717850.133	469.42
LOCATION	L0000143	VOLUME	484046.631	3717853.190	469.37
LOCATION	L0000144	VOLUME	484047.256	3717856.247	469.34
LOCATION	L0000145	VOLUME	484047.880	3717859.304	469.38
LOCATION	L0000146	VOLUME	484048.505	3717862.361	469.42
LOCATION	L0000147	VOLUME	484049.130	3717865.418	469.47
LOCATION	L0000148	VOLUME	484049.755	3717868.474	469.42
LOCATION	L0000149	VOLUME	484050.379	3717871.531	469.36
LOCATION	L0000150	VOLUME	484051.004	3717874.588	469.30
LOCATION	L0000151	VOLUME	484051.629	3717877.645	469.34
LOCATION	L0000152	VOLUME	484052.254	3717880.702	469.44
LOCATION	L0000153	VOLUME	484052.878	3717883.758	469.53
LOCATION	L0000154	VOLUME	484053.503	3717886.815	469.57
LOCATION	L0000155	VOLUME	484054.128	3717889.872	469.44
LOCATION	L0000156	VOLUME	484054.753	3717892.929	469.33
LOCATION	L0000157	VOLUME	484055.377	3717895.986	469.23
LOCATION	L0000158	VOLUME	484056.002	3717899.042	469.18
LOCATION	L0000159	VOLUME	484056.627	3717902.099	469.12
LOCATION	L0000160	VOLUME	484057.252	3717905.156	469.07
LOCATION	L0000161	VOLUME	484057.876	3717908.213	469.01
LOCATION	L0000162	VOLUME	484058.501	3717911.270	468.95
LOCATION	L0000163	VOLUME	484059.126	3717914.326	468.90
LOCATION	L0000164	VOLUME	484059.751	3717917.383	468.84
LOCATION	L0000165	VOLUME	484060.375	3717920.440	468.78
LOCATION	L0000166	VOLUME	484061.000	3717923.497	468.70
LOCATION	L0000167	VOLUME	484061.625	3717926.554	468.61

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LOCATION L0000168     VOLUME   484062.250 3717929.611 468.59
LOCATION L0000169     VOLUME   484062.874 3717932.667 468.59
LOCATION L0000170     VOLUME   484063.499 3717935.724 468.57
LOCATION L0000171     VOLUME   484064.124 3717938.781 468.56
LOCATION L0000172     VOLUME   484064.749 3717941.838 468.57
LOCATION L0000173     VOLUME   484065.373 3717944.895 468.60
LOCATION L0000174     VOLUME   484063.174 3717946.547 468.52
LOCATION L0000175     VOLUME   484060.359 3717947.893 468.38
LOCATION L0000176     VOLUME   484057.545 3717949.239 468.45
LOCATION L0000177     VOLUME   484054.730 3717950.585 468.50
LOCATION L0000178     VOLUME   484051.915 3717951.931 468.54
LOCATION L0000179     VOLUME   484049.101 3717953.277 468.55
LOCATION L0000180     VOLUME   484047.804 3717951.072 468.52
LOCATION L0000181     VOLUME   484046.833 3717948.107 468.47
LOCATION L0000182     VOLUME   484045.861 3717945.142 468.43
LOCATION L0000183     VOLUME   484044.889 3717942.177 468.39
LOCATION L0000184     VOLUME   484043.918 3717939.212 468.34
LOCATION L0000185     VOLUME   484042.946 3717936.248 468.25
LOCATION L0000186     VOLUME   484041.974 3717933.283 468.08
LOCATION L0000187     VOLUME   484041.003 3717930.318 467.93
LOCATION L0000188     VOLUME   484040.031 3717927.353 467.80
LOCATION L0000189     VOLUME   484039.059 3717924.388 467.76
LOCATION L0000190     VOLUME   484038.088 3717921.423 467.71
LOCATION L0000191     VOLUME   484037.116 3717918.459 467.62
LOCATION L0000192     VOLUME   484036.144 3717915.494 467.56
LOCATION L0000193     VOLUME   484035.173 3717912.529 467.51
LOCATION L0000194     VOLUME   484034.201 3717909.564 467.45
LOCATION L0000195     VOLUME   484033.229 3717906.599 467.36
LOCATION L0000196     VOLUME   484032.258 3717903.634 467.33
LOCATION L0000197     VOLUME   484031.286 3717900.670 467.30
LOCATION L0000198     VOLUME   484030.314 3717897.705 467.27
LOCATION L0000199     VOLUME   484029.343 3717894.740 467.43
LOCATION L0000200     VOLUME   484028.371 3717891.775 467.72
LOCATION L0000201     VOLUME   484027.399 3717888.810 468.01
LOCATION L0000202     VOLUME   484026.428 3717885.845 468.26
LOCATION L0000203     VOLUME   484025.456 3717882.880 468.05
LOCATION L0000204     VOLUME   484024.484 3717879.916 467.82
LOCATION L0000205     VOLUME   484023.513 3717876.951 467.61
LOCATION L0000206     VOLUME   484022.541 3717873.986 467.50
LOCATION L0000207     VOLUME   484021.569 3717871.021 467.44
LOCATION L0000208     VOLUME   484020.598 3717868.056 467.39
LOCATION L0000209     VOLUME   484019.626 3717865.091 467.36
LOCATION L0000210     VOLUME   484018.654 3717862.127 467.38
LOCATION L0000211     VOLUME   484017.683 3717859.162 467.38
LOCATION L0000212     VOLUME   484016.711 3717856.197 467.38
LOCATION L0000213     VOLUME   484015.739 3717853.232 467.38
LOCATION L0000214     VOLUME   484014.768 3717850.267 467.38
LOCATION L0000215     VOLUME   484013.796 3717847.302 467.39
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LOCATION	L0000216	VOLUME	484012.824	3717844.338	467.38
LOCATION	L0000217	VOLUME	484011.853	3717841.373	467.36
LOCATION	L0000218	VOLUME	484010.881	3717838.408	467.34
LOCATION	L0000219	VOLUME	484009.909	3717835.443	467.33
LOCATION	L0000220	VOLUME	484008.938	3717832.478	467.29
LOCATION	L0000221	VOLUME	484007.966	3717829.513	467.24
LOCATION	L0000222	VOLUME	484006.994	3717826.549	467.21
LOCATION	L0000223	VOLUME	484006.023	3717823.584	467.20
LOCATION	L0000224	VOLUME	484005.051	3717820.619	467.22
LOCATION	L0000225	VOLUME	484004.079	3717817.654	467.25
LOCATION	L0000226	VOLUME	484003.108	3717814.689	467.27
LOCATION	L0000227	VOLUME	484002.136	3717811.724	467.23
LOCATION	L0000228	VOLUME	484001.164	3717808.760	467.18
LOCATION	L0000229	VOLUME	484000.193	3717805.795	467.14
LOCATION	L0000230	VOLUME	483999.221	3717802.830	467.14
LOCATION	L0000231	VOLUME	483998.249	3717799.865	467.18
LOCATION	L0000232	VOLUME	483997.278	3717796.900	467.20
LOCATION	L0000233	VOLUME	483996.306	3717793.935	467.21
LOCATION	L0000234	VOLUME	483995.334	3717790.971	467.25
LOCATION	L0000235	VOLUME	483994.363	3717788.006	467.28
LOCATION	L0000236	VOLUME	483993.391	3717785.041	467.31
LOCATION	L0000237	VOLUME	483992.419	3717782.076	467.35
LOCATION	L0000238	VOLUME	483991.448	3717779.111	467.39
LOCATION	L0000239	VOLUME	483990.476	3717776.146	467.42
LOCATION	L0000240	VOLUME	483989.504	3717773.182	467.45
LOCATION	L0000241	VOLUME	483988.532	3717770.217	467.46
LOCATION	L0000242	VOLUME	483987.561	3717767.252	467.45
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LOCATION	L0000247	VOLUME	483982.702	3717752.428	467.55
LOCATION	L0000248	VOLUME	483981.731	3717749.463	467.60
LOCATION	L0000249	VOLUME	483980.759	3717746.498	467.63
LOCATION	L0000250	VOLUME	483979.787	3717743.533	467.65
LOCATION	L0000251	VOLUME	483978.816	3717740.568	467.62
LOCATION	L0000252	VOLUME	483977.844	3717737.603	467.58
LOCATION	L0000253	VOLUME	483976.872	3717734.639	467.55
LOCATION	L0000254	VOLUME	483975.901	3717731.674	467.54
LOCATION	L0000255	VOLUME	483974.929	3717728.709	467.54
LOCATION	L0000256	VOLUME	483973.957	3717725.744	467.55
LOCATION	L0000257	VOLUME	483972.986	3717722.779	467.56
LOCATION	L0000258	VOLUME	483972.014	3717719.814	467.54
LOCATION	L0000259	VOLUME	483971.042	3717716.850	467.50
LOCATION	L0000260	VOLUME	483970.071	3717713.885	467.46
LOCATION	L0000261	VOLUME	483969.099	3717710.920	467.42
LOCATION	L0000262	VOLUME	483968.127	3717707.955	467.39
LOCATION	L0000263	VOLUME	483967.156	3717704.990	467.35

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LOCATION L0000264     VOLUME   483966.184 3717702.025 467.31
LOCATION L0000265     VOLUME   483965.212 3717699.061 467.30
LOCATION L0000266     VOLUME   483964.241 3717696.096 467.32
LOCATION L0000267     VOLUME   483963.269 3717693.131 467.33
LOCATION L0000268     VOLUME   483963.557 3717690.360 467.47
LOCATION L0000269     VOLUME   483965.376 3717687.826 467.76
LOCATION L0000270     VOLUME   483967.196 3717685.291 468.03
LOCATION L0000271     VOLUME   483969.016 3717682.757 468.29
LOCATION L0000272     VOLUME   483970.835 3717680.222 468.53
LOCATION L0000273     VOLUME   483972.655 3717677.688 468.82
LOCATION L0000274     VOLUME   483974.474 3717675.154 469.11
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LOCATION L0000277     VOLUME   483979.933 3717667.550 469.96
LOCATION L0000278     VOLUME   483981.753 3717665.016 470.21
LOCATION L0000279     VOLUME   483983.405 3717663.358 470.36
LOCATION L0000280     VOLUME   483984.165 3717666.384 470.30
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LOCATION L0000283     VOLUME   483986.442 3717675.463 470.12
LOCATION L0000284     VOLUME   483987.201 3717678.489 470.06
LOCATION L0000285     VOLUME   483987.960 3717681.515 470.02
LOCATION L0000286     VOLUME   483988.719 3717684.541 470.05
LOCATION L0000287     VOLUME   483989.479 3717687.568 470.07
LOCATION L0000288     VOLUME   483990.238 3717690.594 470.10
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LOCATION L0000293     VOLUME   483994.034 3717705.725 470.28
LOCATION L0000294     VOLUME   483994.793 3717708.751 470.25
LOCATION L0000295     VOLUME   483995.552 3717711.777 470.23
LOCATION L0000296     VOLUME   483996.311 3717714.804 470.18
LOCATION L0000297     VOLUME   483997.070 3717717.830 470.13
LOCATION L0000298     VOLUME   483997.829 3717720.856 470.10
LOCATION L0000299     VOLUME   483998.589 3717723.882 470.04
LOCATION L0000300     VOLUME   483999.348 3717726.909 469.97
LOCATION L0000301     VOLUME   484000.107 3717729.935 469.89
LOCATION L0000302     VOLUME   484000.866 3717732.961 469.81
LOCATION L0000303     VOLUME   484001.625 3717735.987 469.73
LOCATION L0000304     VOLUME   484002.384 3717739.014 469.65
LOCATION L0000305     VOLUME   484003.143 3717742.040 469.56
LOCATION L0000306     VOLUME   484003.903 3717745.066 469.51
LOCATION L0000307     VOLUME   484004.662 3717748.092 469.46
LOCATION L0000308     VOLUME   484005.421 3717751.118 469.40
LOCATION L0000309     VOLUME   484006.180 3717754.145 469.34
LOCATION L0000310     VOLUME   484006.939 3717757.171 469.25
LOCATION L0000311     VOLUME   484007.698 3717760.197 469.15
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   LOCATION L0000312     VOLUME   484008.458 3717763.223 469.05
   LOCATION L0000313     VOLUME   484009.217 3717766.250 468.95
   LOCATION L0000314     VOLUME   484009.976 3717769.276 468.85
   LOCATION L0000315     VOLUME   484010.735 3717772.302 468.74
   LOCATION L0000316     VOLUME   484011.494 3717775.328 468.65
   LOCATION L0000317     VOLUME   484012.253 3717778.355 468.58
   LOCATION L0000318     VOLUME   484013.013 3717781.381 468.51
   LOCATION L0000319     VOLUME   484013.772 3717784.407 468.44
   LOCATION L0000320     VOLUME   484014.531 3717787.433 468.37
   LOCATION L0000321     VOLUME   484015.290 3717790.459 468.30
   LOCATION L0000322     VOLUME   484016.049 3717793.486 468.24
   LOCATION L0000323     VOLUME   484016.808 3717796.512 468.21
   LOCATION L0000324     VOLUME   484017.567 3717799.538 468.21
   LOCATION L0000325     VOLUME   484018.327 3717802.564 468.21
   LOCATION L0000326     VOLUME   484019.086 3717805.591 468.24
   LOCATION L0000327     VOLUME   484019.845 3717808.617 468.29
   LOCATION L0000328     VOLUME   484020.604 3717811.643 468.34
   LOCATION L0000329     VOLUME   484021.363 3717814.669 468.38
   LOCATION L0000330     VOLUME   484022.122 3717817.696 468.34
   LOCATION L0000331     VOLUME   484022.882 3717820.722 468.30
   LOCATION L0000332     VOLUME   484023.641 3717823.748 468.26
   LOCATION L0000333     VOLUME   484024.400 3717826.774 468.27
   LOCATION L0000334     VOLUME   484025.159 3717829.801 468.31
   LOCATION L0000335     VOLUME   484025.918 3717832.827 468.35
   LOCATION L0000336     VOLUME   484026.677 3717835.853 468.39
   LOCATION L0000337     VOLUME   484027.437 3717838.879 468.44
   LOCATION L0000338     VOLUME   484028.196 3717841.905 468.50
   LOCATION L0000339     VOLUME   484028.955 3717844.932 468.55
   LOCATION L0000340     VOLUME   484029.714 3717847.958 468.52
   LOCATION L0000341     VOLUME   484030.473 3717850.984 468.48
   LOCATION L0000342     VOLUME   484031.232 3717854.010 468.43
   LOCATION L0000343     VOLUME   484031.991 3717857.037 468.40
   LOCATION L0000344     VOLUME   484032.751 3717860.063 468.38
   LOCATION L0000345     VOLUME   484033.510 3717863.089 468.37
   LOCATION L0000346     VOLUME   484034.269 3717866.115 468.37
   LOCATION L0000347     VOLUME   484035.028 3717869.142 468.39
   LOCATION L0000348     VOLUME   484035.787 3717872.168 468.39
   LOCATION L0000349     VOLUME   484036.546 3717875.194 468.39
** End of LINE VOLUME Source ID = TRUCKS
   LOCATION GEN1         POINT      484047.140  3717894.800      468.710
** DESCRSRC 350 hp diesel generator
   LOCATION GEN2         POINT      484048.610  3717874.990      469.140
** DESCRSRC 156 hp diesel generator
   LOCATION GEN3         POINT      484042.730  3717886.000      469.070
** DESCRSRC 325 hp diesel generator
   LOCATION GEN4         POINT      484052.280  3717893.330      469.180
** DESCRSRC 85 hp diesel generator
** Source Parameters **
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** LINE VOLUME Source ID = EQUIP
   SRCPARAM L0000001     0.0135135135      5.00      5.41      1.08
   SRCPARAM L0000002     0.0135135135      5.00      5.41      1.08
   SRCPARAM L0000003     0.0135135135      5.00      5.41      1.08
   SRCPARAM L0000004     0.0135135135      5.00      5.41      1.08
   SRCPARAM L0000005     0.0135135135      5.00      5.41      1.08
   SRCPARAM L0000006     0.0135135135      5.00      5.41      1.08
   SRCPARAM L0000007     0.0135135135      5.00      5.41      1.08
   SRCPARAM L0000008     0.0135135135      5.00      5.41      1.08
   SRCPARAM L0000009     0.0135135135      5.00      5.41      1.08
   SRCPARAM L0000010     0.0135135135      5.00      5.41      1.08
   SRCPARAM L0000011     0.0135135135      5.00      5.41      1.08
   SRCPARAM L0000012     0.0135135135      5.00      5.41      1.08
   SRCPARAM L0000013     0.0135135135      5.00      5.41      1.08
   SRCPARAM L0000014     0.0135135135      5.00      5.41      1.08
   SRCPARAM L0000015     0.0135135135      5.00      5.41      1.08
   SRCPARAM L0000016     0.0135135135      5.00      5.41      1.08
   SRCPARAM L0000017     0.0135135135      5.00      5.41      1.08
   SRCPARAM L0000018     0.0135135135      5.00      5.41      1.08
   SRCPARAM L0000019     0.0135135135      5.00      5.41      1.08
   SRCPARAM L0000020     0.0135135135      5.00      5.41      1.08
   SRCPARAM L0000021     0.0135135135      5.00      5.41      1.08
   SRCPARAM L0000022     0.0135135135      5.00      5.41      1.08
   SRCPARAM L0000023     0.0135135135      5.00      5.41      1.08
   SRCPARAM L0000024     0.0135135135      5.00      5.41      1.08
   SRCPARAM L0000025     0.0135135135      5.00      5.41      1.08
   SRCPARAM L0000026     0.0135135135      5.00      5.41      1.08
   SRCPARAM L0000027     0.0135135135      5.00      5.41      1.08
   SRCPARAM L0000028     0.0135135135      5.00      5.41      1.08
   SRCPARAM L0000029     0.0135135135      5.00      5.41      1.08
   SRCPARAM L0000030     0.0135135135      5.00      5.41      1.08
   SRCPARAM L0000031     0.0135135135      5.00      5.41      1.08
   SRCPARAM L0000032     0.0135135135      5.00      5.41      1.08
   SRCPARAM L0000033     0.0135135135      5.00      5.41      1.08
   SRCPARAM L0000034     0.0135135135      5.00      5.41      1.08
   SRCPARAM L0000035     0.0135135135      5.00      5.41      1.08
   SRCPARAM L0000036     0.0135135135      5.00      5.41      1.08
   SRCPARAM L0000037     0.0135135135      5.00      5.41      1.08
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   SRCPARAM L0000045     0.0135135135      5.00      5.41      1.08
   SRCPARAM L0000046     0.0135135135      5.00      5.41      1.08
   SRCPARAM L0000047     0.0135135135      5.00      5.41      1.08
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   SRCPARAM L0000057     0.0135135135      5.00      5.41      1.08
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   SRCPARAM L0000060     0.0135135135      5.00      5.41      1.08
   SRCPARAM L0000061     0.0135135135      5.00      5.41      1.08
   SRCPARAM L0000062     0.0135135135      5.00      5.41      1.08
   SRCPARAM L0000063     0.0135135135      5.00      5.41      1.08
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   SRCPARAM L0000065     0.0135135135      5.00      5.41      1.08
   SRCPARAM L0000066     0.0135135135      5.00      5.41      1.08
   SRCPARAM L0000067     0.0135135135      5.00      5.41      1.08
   SRCPARAM L0000068     0.0135135135      5.00      5.41      1.08
   SRCPARAM L0000069     0.0135135135      5.00      5.41      1.08
   SRCPARAM L0000070     0.0135135135      5.00      5.41      1.08
   SRCPARAM L0000071     0.0135135135      5.00      5.41      1.08
   SRCPARAM L0000072     0.0135135135      5.00      5.41      1.08
   SRCPARAM L0000073     0.0135135135      5.00      5.41      1.08
   SRCPARAM L0000074     0.0135135135      5.00      5.41      1.08
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** LINE VOLUME Source ID = TRUCKS
   SRCPARAM L0000075     0.0036363636      3.40      1.45      1.47
   SRCPARAM L0000076     0.0036363636      3.40      1.45      1.47
   SRCPARAM L0000077     0.0036363636      3.40      1.45      1.47
   SRCPARAM L0000078     0.0036363636      3.40      1.45      1.47
   SRCPARAM L0000079     0.0036363636      3.40      1.45      1.47
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   SRCPARAM L0000081     0.0036363636      3.40      1.45      1.47
   SRCPARAM L0000082     0.0036363636      3.40      1.45      1.47
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   SRCPARAM L0000084     0.0036363636      3.40      1.45      1.47
   SRCPARAM L0000085     0.0036363636      3.40      1.45      1.47
   SRCPARAM L0000086     0.0036363636      3.40      1.45      1.47
   SRCPARAM L0000087     0.0036363636      3.40      1.45      1.47
   SRCPARAM L0000088     0.0036363636      3.40      1.45      1.47
   SRCPARAM L0000089     0.0036363636      3.40      1.45      1.47
   SRCPARAM L0000090     0.0036363636      3.40      1.45      1.47
   SRCPARAM L0000091     0.0036363636      3.40      1.45      1.47
   SRCPARAM L0000092     0.0036363636      3.40      1.45      1.47
   SRCPARAM L0000093     0.0036363636      3.40      1.45      1.47
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SRCPARAM L0000095     0.0036363636      3.40      1.45      1.47
SRCPARAM L0000096     0.0036363636      3.40      1.45      1.47
SRCPARAM L0000097     0.0036363636      3.40      1.45      1.47
SRCPARAM L0000098     0.0036363636      3.40      1.45      1.47
SRCPARAM L0000099     0.0036363636      3.40      1.45      1.47
SRCPARAM L0000100     0.0036363636      3.40      1.45      1.47
SRCPARAM L0000101     0.0036363636      3.40      1.45      1.47
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SRCPARAM L0000141     0.0036363636      3.40      1.45      1.47
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SRCPARAM	L0000148	0.0036363636	3.40	1.45	1.47
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SRCPARAM	L0000150	0.0036363636	3.40	1.45	1.47
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SRCPARAM	L0000189	0.0036363636	3.40	1.45	1.47

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SRCPARAM L0000237     0.0036363636      3.40      1.45      1.47
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SRCPARAM L0000268     0.0036363636      3.40      1.45      1.47
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SRCPARAM L0000271     0.0036363636      3.40      1.45      1.47
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SRCPARAM L0000282     0.0036363636      3.40      1.45      1.47
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SRCPARAM L0000284     0.0036363636      3.40      1.45      1.47
SRCPARAM L0000285     0.0036363636      3.40      1.45      1.47
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SRCPARAM	L0000289	0.0036363636	3.40	1.45	1.47
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SRCPARAM	L0000291	0.0036363636	3.40	1.45	1.47
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SRCPARAM	L0000296	0.0036363636	3.40	1.45	1.47
SRCPARAM	L0000297	0.0036363636	3.40	1.45	1.47
SRCPARAM	L0000298	0.0036363636	3.40	1.45	1.47
SRCPARAM	L0000299	0.0036363636	3.40	1.45	1.47
SRCPARAM	L0000300	0.0036363636	3.40	1.45	1.47
SRCPARAM	L0000301	0.0036363636	3.40	1.45	1.47
SRCPARAM	L0000302	0.0036363636	3.40	1.45	1.47
SRCPARAM	L0000303	0.0036363636	3.40	1.45	1.47
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SRCPARAM	L0000310	0.0036363636	3.40	1.45	1.47
SRCPARAM	L0000311	0.0036363636	3.40	1.45	1.47
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SRCPARAM	L0000313	0.0036363636	3.40	1.45	1.47
SRCPARAM	L0000314	0.0036363636	3.40	1.45	1.47
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SRCPARAM	L0000330	0.0036363636	3.40	1.45	1.47
SRCPARAM	L0000331	0.0036363636	3.40	1.45	1.47
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SRCPARAM	L0000333	0.0036363636	3.40	1.45	1.47

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** ------------------------------------------------------------------------
   SRCPARAM GEN1               1.0     2.499   699.261  61.10600     0.134
   SRCPARAM GEN2               1.0     2.256   754.817  43.58700     0.104
   SRCPARAM GEN3               1.0     2.499   772.594  61.10600     0.134
   SRCPARAM GEN4               1.0     2.164   806.483  20.96293     0.116
   URBANSRC ALL

** Variable Emissions Type: "By Hour / Seven Days (HRDOW7)"
** Variable Emission Scenario: "Scenario 2"
   EMISFACT L0000001     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT L0000001     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT L0000001     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000002     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT L0000002     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
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   EMISFACT L0000005     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT L0000005     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0000006     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT L0000006     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0000007     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT L0000007     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000008     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT L0000008     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
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EMISFACT L0000024     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
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EMISFACT L0000056     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
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EMISFACT L0000062     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
EMISFACT L0000062     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
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EMISFACT L0000062     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
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EMISFACT L0000067     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000068     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
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EMISFACT L0000026     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
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EMISFACT L0000058     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
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EMISFACT L0000063     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
EMISFACT L0000063     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000064     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
EMISFACT L0000064     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000065     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
EMISFACT L0000065     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
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EMISFACT L0000066     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000067     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000074     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
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EMISFACT L0000029     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
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EMISFACT L0000039     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
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EMISFACT L0000053     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
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EMISFACT L0000059     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
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EMISFACT L0000060     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
EMISFACT L0000060     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
EMISFACT L0000060     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000061     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
EMISFACT L0000061     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
EMISFACT L0000061     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000062     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
EMISFACT L0000062     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
EMISFACT L0000062     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000063     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
EMISFACT L0000063     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
EMISFACT L0000063     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000064     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
EMISFACT L0000064     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
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EMISFACT L0000065     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
EMISFACT L0000065     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
EMISFACT L0000065     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000066     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
EMISFACT L0000066     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
EMISFACT L0000066     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000067     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
EMISFACT L0000067     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
EMISFACT L0000067     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000068     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
EMISFACT L0000068     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
EMISFACT L0000068     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000069     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
EMISFACT L0000069     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
EMISFACT L0000069     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000070     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
EMISFACT L0000070     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
EMISFACT L0000070     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000071     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
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EMISFACT L0000006     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000019     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000020     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000021     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000021     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000022     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000024     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000024     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000025     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000025     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000025     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000026     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000026     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000027     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000027     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000028     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000029     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000029     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000030     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000031     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000033     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000033     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000034     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000034     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000036     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000036     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000037     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000038     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000041     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000043     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000043     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000044     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000044     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000044     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000045     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000045     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000046     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000047     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000048     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000048     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000048     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000049     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000049     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000049     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000050     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000050     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000050     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000051     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000051     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000051     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000052     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000052     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000052     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000053     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000053     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000053     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000054     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000054     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000055     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000055     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000056     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000056     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000057     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000058     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000059     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000060     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000060     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000060     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000069     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000070     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000012     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000027     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000028     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000043     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000049     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000124     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
EMISFACT L0000124     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
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EMISFACT L0000125     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000129     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
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EMISFACT L0000131     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
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EMISFACT L0000268     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
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EMISFACT L0000345     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
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EMISFACT L0000134     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
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EMISFACT L0000214     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
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EMISFACT L0000147     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
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EMISFACT L0000291     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
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EMISFACT L0000160     HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
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EMISFACT L0000091     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000092     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000092     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000092     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000093     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000093     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000109     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000125     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000237     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000105     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000106     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000169     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000170     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000170     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000172     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000176     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000186     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000237     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000237     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000250     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000311     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000311     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000312     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000312     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000312     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000313     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000313     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000314     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000314     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000315     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000315     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000316     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000316     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000316     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000317     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000317     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000327     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000327     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000329     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000330     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000344     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000344     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000345     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000345     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000345     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000346     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000346     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000347     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000347     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000348     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000348     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000348     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000349     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000349     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000349     HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT GEN1         HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
EMISFACT GEN1         HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
EMISFACT GEN1         HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT GEN1         HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
EMISFACT GEN1         HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
EMISFACT GEN1         HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT GEN1         HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
EMISFACT GEN1         HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
EMISFACT GEN1         HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT GEN1         HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
EMISFACT GEN1         HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
EMISFACT GEN1         HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT GEN1         HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
EMISFACT GEN1         HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
EMISFACT GEN1         HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT GEN1         HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT GEN1         HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT GEN1         HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT GEN1         HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT GEN2         HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
EMISFACT GEN2         HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT GEN2         HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
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EMISFACT GEN2         HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
EMISFACT GEN2         HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT GEN2         HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT GEN2         HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT GEN2         HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT GEN2         HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT GEN3         HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
EMISFACT GEN3         HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
EMISFACT GEN3         HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT GEN3         HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
EMISFACT GEN3         HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
EMISFACT GEN3         HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT GEN3         HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
EMISFACT GEN3         HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
EMISFACT GEN3         HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT GEN3         HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
EMISFACT GEN3         HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
EMISFACT GEN3         HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT GEN3         HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
EMISFACT GEN3         HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
EMISFACT GEN3         HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT GEN3         HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
EMISFACT GEN3         HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
EMISFACT GEN3         HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT GEN3         HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT GEN3         HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT GEN3         HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT GEN3         HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT GEN3         HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT GEN4         HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
EMISFACT GEN4         HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT GEN4         HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
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EMISFACT GEN4         HRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
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EMISFACT GEN4         HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT GEN4         HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT GEN4         HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT GEN4         HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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SRCGROUP EQUIP    L0000007 L0000008 L0000009 L0000010 L0000011 L0000012
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SRCGROUP EQUIP    L0000025 L0000026 L0000027 L0000028 L0000029 L0000030
SRCGROUP EQUIP    L0000031 L0000032 L0000033 L0000034 L0000035 L0000036
SRCGROUP EQUIP    L0000037 L0000038 L0000039 L0000040 L0000041 L0000042
SRCGROUP EQUIP    L0000043 L0000044 L0000045 L0000046 L0000047 L0000048
SRCGROUP EQUIP    L0000049 L0000050 L0000051 L0000052 L0000053 L0000054
SRCGROUP EQUIP    L0000055 L0000056 L0000057 L0000058 L0000059 L0000060
SRCGROUP EQUIP    L0000061 L0000062 L0000063 L0000064 L0000065 L0000066
SRCGROUP EQUIP    L0000067 L0000068 L0000069 L0000070 L0000071 L0000072
SRCGROUP EQUIP    L0000073 L0000074
SRCGROUP GEN1     GEN1
SRCGROUP GEN2     GEN2
SRCGROUP GEN3     GEN3
SRCGROUP GEN4     GEN4
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SRCGROUP TRUCKS   L0000081 L0000082 L0000083 L0000084 L0000085 L0000086
SRCGROUP TRUCKS   L0000087 L0000088 L0000089 L0000090 L0000091 L0000092
SRCGROUP TRUCKS   L0000093 L0000094 L0000095 L0000096 L0000097 L0000098
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SRCGROUP TRUCKS   L0000123 L0000124 L0000125 L0000126 L0000127 L0000128
SRCGROUP TRUCKS   L0000129 L0000130 L0000131 L0000132 L0000133 L0000134
SRCGROUP TRUCKS   L0000135 L0000136 L0000137 L0000138 L0000139 L0000140
SRCGROUP TRUCKS   L0000141 L0000142 L0000143 L0000144 L0000145 L0000146
SRCGROUP TRUCKS   L0000147 L0000148 L0000149 L0000150 L0000151 L0000152
SRCGROUP TRUCKS   L0000153 L0000154 L0000155 L0000156 L0000157 L0000158
SRCGROUP TRUCKS   L0000159 L0000160 L0000161 L0000162 L0000163 L0000164
SRCGROUP TRUCKS   L0000165 L0000166 L0000167 L0000168 L0000169 L0000170
SRCGROUP TRUCKS   L0000171 L0000172 L0000173 L0000174 L0000175 L0000176
SRCGROUP TRUCKS   L0000177 L0000178 L0000179 L0000180 L0000181 L0000182
SRCGROUP TRUCKS   L0000183 L0000184 L0000185 L0000186 L0000187 L0000188
SRCGROUP TRUCKS   L0000189 L0000190 L0000191 L0000192 L0000193 L0000194
SRCGROUP TRUCKS   L0000195 L0000196 L0000197 L0000198 L0000199 L0000200
SRCGROUP TRUCKS   L0000201 L0000202 L0000203 L0000204 L0000205 L0000206
SRCGROUP TRUCKS   L0000207 L0000208 L0000209 L0000210 L0000211 L0000212
SRCGROUP TRUCKS   L0000213 L0000214 L0000215 L0000216 L0000217 L0000218
SRCGROUP TRUCKS   L0000219 L0000220 L0000221 L0000222 L0000223 L0000224
SRCGROUP TRUCKS   L0000225 L0000226 L0000227 L0000228 L0000229 L0000230
SRCGROUP TRUCKS   L0000231 L0000232 L0000233 L0000234 L0000235 L0000236
SRCGROUP TRUCKS   L0000237 L0000238 L0000239 L0000240 L0000241 L0000242
SRCGROUP TRUCKS   L0000243 L0000244 L0000245 L0000246 L0000247 L0000248
SRCGROUP TRUCKS   L0000249 L0000250 L0000251 L0000252 L0000253 L0000254
SRCGROUP TRUCKS   L0000255 L0000256 L0000257 L0000258 L0000259 L0000260
SRCGROUP TRUCKS   L0000261 L0000262 L0000263 L0000264 L0000265 L0000266
SRCGROUP TRUCKS   L0000267 L0000268 L0000269 L0000270 L0000271 L0000272
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   SRCGROUP TRUCKS   L0000273 L0000274 L0000275 L0000276 L0000277 L0000278
   SRCGROUP TRUCKS   L0000279 L0000280 L0000281 L0000282 L0000283 L0000284
   SRCGROUP TRUCKS   L0000285 L0000286 L0000287 L0000288 L0000289 L0000290
   SRCGROUP TRUCKS   L0000291 L0000292 L0000293 L0000294 L0000295 L0000296
   SRCGROUP TRUCKS   L0000297 L0000298 L0000299 L0000300 L0000301 L0000302
   SRCGROUP TRUCKS   L0000303 L0000304 L0000305 L0000306 L0000307 L0000308
   SRCGROUP TRUCKS   L0000309 L0000310 L0000311 L0000312 L0000313 L0000314
   SRCGROUP TRUCKS   L0000315 L0000316 L0000317 L0000318 L0000319 L0000320
   SRCGROUP TRUCKS   L0000321 L0000322 L0000323 L0000324 L0000325 L0000326
   SRCGROUP TRUCKS   L0000327 L0000328 L0000329 L0000330 L0000331 L0000332
   SRCGROUP TRUCKS   L0000333 L0000334 L0000335 L0000336 L0000337 L0000338
   SRCGROUP TRUCKS   L0000339 L0000340 L0000341 L0000342 L0000343 L0000344
   SRCGROUP TRUCKS   L0000345 L0000346 L0000347 L0000348 L0000349
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED CurciVineyardIIICon.rou
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE ..\MET\LakeElsinoreADJU\ELSI_V9_ADJU\ELSI_v9.SFC
   PROFFILE ..\MET\LakeElsinoreADJU\ELSI_V9_ADJU\ELSI_v9.PFL
   SURFDATA 3171 2012
   UAIRDATA 3190 2012
   SITEDATA 99999 2012
   PROFBASE 406.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
```

```
   PLOTFILE 1 ALL 1ST CURCIVINEYARDIIICON.AD\01H1GALL.PLT 31
   PLOTFILE 1 EQUIP 1ST CURCIVINEYARDIIICON.AD\01H1G001.PLT 32
   PLOTFILE 1 GEN1 1ST CURCIVINEYARDIIICON.AD\01H1G002.PLT 33
   PLOTFILE 1 GEN2 1ST CURCIVINEYARDIIICON.AD\01H1G003.PLT 34
   PLOTFILE 1 GEN3 1ST CURCIVINEYARDIIICON.AD\01H1G004.PLT 35
   PLOTFILE 1 GEN4 1ST CURCIVINEYARDIIICON.AD\01H1G005.PLT 36
   PLOTFILE 1 TRUCKS 1ST CURCIVINEYARDIIICON.AD\01H1G006.PLT 37
   PLOTFILE PERIOD ALL CURCIVINEYARDIIICON.AD\PE00GALL.PLT 38
   PLOTFILE PERIOD EQUIP CURCIVINEYARDIIICON.AD\PE00G001.PLT 39
   PLOTFILE PERIOD GEN1 CURCIVINEYARDIIICON.AD\PE00G002.PLT 40
   PLOTFILE PERIOD GEN2 CURCIVINEYARDIIICON.AD\PE00G003.PLT 41
   PLOTFILE PERIOD GEN3 CURCIVINEYARDIIICON.AD\PE00G004.PLT 42
   PLOTFILE PERIOD GEN4 CURCIVINEYARDIIICON.AD\PE00G005.PLT 43
   PLOTFILE PERIOD TRUCKS CURCIVINEYARDIIICON.AD\PE00G006.PLT 44
   SUMMFILE CurciVineyardIIICon.sum
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            4 Warning Message(s)
 A Total of            0 Informational Message(s)


    ******** FATAL ERROR MESSAGES ********
              ***  NONE  ***


    ********   WARNING MESSAGES   ********
 SO W320     785        PPARM: Input Parameter May Be Out-of-Range for Parameter
       VS
 SO W320     787        PPARM: Input Parameter May Be Out-of-Range for Parameter
       VS
 ME W186    8293       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
     0.50
 ME W187    8293       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


 ***********************************
 *** SETUP Finishes Successfully ***
 ***********************************

 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                           ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** MODEL SETUP OPTIONS SUMMARY ***

- - - -

```
                and:      0 AREA type source(s)
                and:      0 LINE source(s)
                and:      0 RLINE/RLINEXT source(s)
                and:      0 OPENPIT source(s)
                and:      0 BUOYANT LINE source(s) with      0 line(s)


 **Model Set To Continue RUNning After the Setup Testing.

 **The AERMET Input Meteorological Data Version Date:  16216

 **Output Options Selected:
          Model Outputs Tables of PERIOD Averages by Receptor
          Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE
Keyword)
          Model Outputs External File(s) of High Values for Plotting (PLOTFILE
Keyword)
          Model Outputs Separate Summary File of High Ranked Values (SUMMFILE
Keyword)

 **NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                 m for Missing Hours
                                                                 b for Both Calm and
Missing Hours

 **Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   406.00 ;  Decay
Coef. =    0.000     ;  Rot. Angle =     0.0
                 Emission Units = GRAMS/SEC                                 ;
Emission Rate Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

 **Approximate Storage Requirements of Model =      4.7 MB of RAM.

 **Input Runstream File:          aermod.inp

 **Output Print File:             aermod.out


 **Detailed Error/Message File:   CurciVineyardIIICon.err

 **File for Summary of Results:   CurciVineyardIIICon.sum

 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***       09:53:15

                                   PAGE   2
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*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BLDG EXISTS	URBAN SOURCE	CAP/ HOR VARY BY
GEN1	0	0.10000E+01	484047.1	3717894.8	468.7	2.50	699.26	61.11	0.13	NO	YES	NO HRDOW7
GEN2	0	0.10000E+01	484048.6	3717875.0	469.1	2.26	754.82	43.59	0.10	NO	YES	NO HRDOW7
GEN3	0	0.10000E+01	484042.7	3717886.0	469.1	2.50	772.59	61.11	0.13	NO	YES	NO HRDOW7
GEN4	0	0.10000E+01	484052.3	3717893.3	469.2	2.16	806.48	20.96	0.12	NO	YES	NO HRDOW7

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000001	0	0.13514E-01	484005.0	3717649.5	471.0	5.00	5.41	1.08	YES	HRDOW7
L0000002	0	0.13514E-01	484007.3	3717660.9	471.4	5.00	5.41	1.08	YES	HRDOW7
L0000003	0	0.13514E-01	484009.7	3717672.3	471.4	5.00	5.41	1.08	YES	HRDOW7

L0000004	0	0.13514E-01	484012.0	3717683.7	471.4	5.00	5.41	
1.08	YES	HRDOW7						
L0000005	0	0.13514E-01	484014.3	3717695.1	471.5	5.00	5.41	
1.08	YES	HRDOW7						
L0000006	0	0.13514E-01	484016.6	3717706.5	471.4	5.00	5.41	
1.08	YES	HRDOW7						
L0000007	0	0.13514E-01	484019.0	3717717.9	471.3	5.00	5.41	
1.08	YES	HRDOW7						
L0000008	0	0.13514E-01	484021.3	3717729.3	471.1	5.00	5.41	
1.08	YES	HRDOW7						
L0000009	0	0.13514E-01	484023.6	3717740.7	470.8	5.00	5.41	
1.08	YES	HRDOW7						
L0000010	0	0.13514E-01	484026.0	3717752.0	470.5	5.00	5.41	
1.08	YES	HRDOW7						
L0000011	0	0.13514E-01	484028.3	3717763.4	469.9	5.00	5.41	
1.08	YES	HRDOW7						
L0000012	0	0.13514E-01	484030.6	3717774.8	469.6	5.00	5.41	
1.08	YES	HRDOW7						
L0000013	0	0.13514E-01	484032.9	3717786.2	469.4	5.00	5.41	
1.08	YES	HRDOW7						
L0000014	0	0.13514E-01	484035.3	3717797.6	469.2	5.00	5.41	
1.08	YES	HRDOW7						
L0000015	0	0.13514E-01	484037.6	3717809.0	469.4	5.00	5.41	
1.08	YES	HRDOW7						
L0000016	0	0.13514E-01	484039.9	3717820.4	469.4	5.00	5.41	
1.08	YES	HRDOW7						
L0000017	0	0.13514E-01	484042.3	3717831.8	469.4	5.00	5.41	
1.08	YES	HRDOW7						
L0000018	0	0.13514E-01	484044.6	3717843.2	469.5	5.00	5.41	
1.08	YES	HRDOW7						
L0000019	0	0.13514E-01	484046.9	3717854.6	469.4	5.00	5.41	
1.08	YES	HRDOW7						
L0000020	0	0.13514E-01	484049.2	3717866.0	469.5	5.00	5.41	
1.08	YES	HRDOW7						
L0000021	0	0.13514E-01	484051.6	3717877.4	469.3	5.00	5.41	
1.08	YES	HRDOW7						
L0000022	0	0.13514E-01	484053.9	3717888.8	469.5	5.00	5.41	
1.08	YES	HRDOW7						
L0000023	0	0.13514E-01	484056.2	3717900.2	469.2	5.00	5.41	
1.08	YES	HRDOW7						
L0000024	0	0.13514E-01	484058.6	3717911.6	468.9	5.00	5.41	
1.08	YES	HRDOW7						
L0000025	0	0.13514E-01	484060.9	3717923.0	468.7	5.00	5.41	
1.08	YES	HRDOW7						
L0000026	0	0.13514E-01	484063.2	3717934.4	468.6	5.00	5.41	
1.08	YES	HRDOW7						
L0000027	0	0.13514E-01	484065.2	3717945.6	468.6	5.00	5.41	
1.08	YES	HRDOW7						

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 L0000028         0   0.13514E-01  484054.7 3717950.6   468.5     5.00     5.41
1.08     YES   HRDOW7
 L0000029         0   0.13514E-01  484047.1 3717948.9   468.5     5.00     5.41
1.08     YES   HRDOW7
 L0000030         0   0.13514E-01  484043.5 3717937.8   468.3     5.00     5.41
1.08     YES   HRDOW7
 L0000031         0   0.13514E-01  484039.8 3717926.8   467.8     5.00     5.41
1.08     YES   HRDOW7
 L0000032         0   0.13514E-01  484036.2 3717915.7   467.6     5.00     5.41
1.08     YES   HRDOW7
 L0000033         0   0.13514E-01  484032.6 3717904.7   467.3     5.00     5.41
1.08     YES   HRDOW7
 L0000034         0   0.13514E-01  484029.0 3717893.6   467.5     5.00     5.41
1.08     YES   HRDOW7
 L0000035         0   0.13514E-01  484025.4 3717882.6   468.0     5.00     5.41
1.08     YES   HRDOW7
 L0000036         0   0.13514E-01  484021.7 3717871.5   467.4     5.00     5.41
1.08     YES   HRDOW7
 L0000037         0   0.13514E-01  484018.1 3717860.5   467.4     5.00     5.41
1.08     YES   HRDOW7
 L0000038         0   0.13514E-01  484014.5 3717849.4   467.4     5.00     5.41
1.08     YES   HRDOW7
 L0000039         0   0.13514E-01  484010.9 3717838.4   467.3     5.00     5.41
1.08     YES   HRDOW7
 L0000040         0   0.13514E-01  484007.2 3717827.3   467.2     5.00     5.41
1.08     YES   HRDOW7
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE   4
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0000041         0   0.13514E-01  484003.6 3717816.3   467.3     5.00     5.41
1.08     YES   HRDOW7
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L0000042	0	0.13514E-01	484000.0	3717805.2	467.1	5.00	5.41	
1.08	YES	HRDOW7						
L0000043	0	0.13514E-01	483996.4	3717794.2	467.2	5.00	5.41	
1.08	YES	HRDOW7						
L0000044	0	0.13514E-01	483992.8	3717783.1	467.3	5.00	5.41	
1.08	YES	HRDOW7						
L0000045	0	0.13514E-01	483989.1	3717772.1	467.4	5.00	5.41	
1.08	YES	HRDOW7						
L0000046	0	0.13514E-01	483985.5	3717761.0	467.4	5.00	5.41	
1.08	YES	HRDOW7						
L0000047	0	0.13514E-01	483981.9	3717750.0	467.6	5.00	5.41	
1.08	YES	HRDOW7						
L0000048	0	0.13514E-01	483978.3	3717738.9	467.6	5.00	5.41	
1.08	YES	HRDOW7						
L0000049	0	0.13514E-01	483974.6	3717727.9	467.5	5.00	5.41	
1.08	YES	HRDOW7						
L0000050	0	0.13514E-01	483971.0	3717716.8	467.5	5.00	5.41	
1.08	YES	HRDOW7						
L0000051	0	0.13514E-01	483967.4	3717705.8	467.4	5.00	5.41	
1.08	YES	HRDOW7						
L0000052	0	0.13514E-01	483963.8	3717694.7	467.3	5.00	5.41	
1.08	YES	HRDOW7						
L0000053	0	0.13514E-01	483967.6	3717684.8	468.1	5.00	5.41	
1.08	YES	HRDOW7						
L0000054	0	0.13514E-01	483974.3	3717675.3	469.1	5.00	5.41	
1.08	YES	HRDOW7						
L0000055	0	0.13514E-01	483981.1	3717665.9	470.1	5.00	5.41	
1.08	YES	HRDOW7						
L0000056	0	0.13514E-01	483985.2	3717670.6	470.2	5.00	5.41	
1.08	YES	HRDOW7						
L0000057	0	0.13514E-01	483988.0	3717681.8	470.0	5.00	5.41	
1.08	YES	HRDOW7						
L0000058	0	0.13514E-01	483990.9	3717693.1	470.2	5.00	5.41	
1.08	YES	HRDOW7						
L0000059	0	0.13514E-01	483993.7	3717704.4	470.3	5.00	5.41	
1.08	YES	HRDOW7						
L0000060	0	0.13514E-01	483996.5	3717715.7	470.2	5.00	5.41	
1.08	YES	HRDOW7						
L0000061	0	0.13514E-01	483999.4	3717727.0	470.0	5.00	5.41	
1.08	YES	HRDOW7						
L0000062	0	0.13514E-01	484002.2	3717738.2	469.7	5.00	5.41	
1.08	YES	HRDOW7						
L0000063	0	0.13514E-01	484005.0	3717749.5	469.4	5.00	5.41	
1.08	YES	HRDOW7						
L0000064	0	0.13514E-01	484007.8	3717760.8	469.1	5.00	5.41	
1.08	YES	HRDOW7						
L0000065	0	0.13514E-01	484010.7	3717772.1	468.8	5.00	5.41	
1.08	YES	HRDOW7						

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 L0000066         0   0.13514E-01  484013.5 3717783.4   468.5     5.00     5.41
1.08     YES   HRDOW7
 L0000067         0   0.13514E-01  484016.3 3717794.6   468.2     5.00     5.41
1.08     YES   HRDOW7
 L0000068         0   0.13514E-01  484019.2 3717805.9   468.2     5.00     5.41
1.08     YES   HRDOW7
 L0000069         0   0.13514E-01  484022.0 3717817.2   468.4     5.00     5.41
1.08     YES   HRDOW7
 L0000070         0   0.13514E-01  484024.8 3717828.5   468.3     5.00     5.41
1.08     YES   HRDOW7
 L0000071         0   0.13514E-01  484027.7 3717839.8   468.5     5.00     5.41
1.08     YES   HRDOW7
 L0000072         0   0.13514E-01  484030.5 3717851.0   468.5     5.00     5.41
1.08     YES   HRDOW7
 L0000073         0   0.13514E-01  484033.3 3717862.3   468.4     5.00     5.41
1.08     YES   HRDOW7
 L0000074         0   0.13514E-01  484036.1 3717873.6   468.4     5.00     5.41
1.08     YES   HRDOW7
 L0000075         0   0.36364E-02  484004.1 3717645.3   470.8     3.40     1.45
1.47     YES   HRDOW7
 L0000076         0   0.36364E-02  484004.8 3717648.4   470.9     3.40     1.45
1.47     YES   HRDOW7
 L0000077         0   0.36364E-02  484005.4 3717651.4   471.1     3.40     1.45
1.47     YES   HRDOW7
 L0000078         0   0.36364E-02  484006.0 3717654.5   471.2     3.40     1.45
1.47     YES   HRDOW7
 L0000079         0   0.36364E-02  484006.6 3717657.6   471.3     3.40     1.45
1.47     YES   HRDOW7
 L0000080         0   0.36364E-02  484007.3 3717660.6   471.4     3.40     1.45
1.47     YES   HRDOW7
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE   5
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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L0000081	0	0.36364E-02	484007.9	3717663.7	471.4	3.40	1.45	1.47	YES	HRDOW7
L0000082	0	0.36364E-02	484008.5	3717666.7	471.4	3.40	1.45	1.47	YES	HRDOW7
L0000083	0	0.36364E-02	484009.1	3717669.8	471.4	3.40	1.45	1.47	YES	HRDOW7
L0000084	0	0.36364E-02	484009.8	3717672.8	471.4	3.40	1.45	1.47	YES	HRDOW7
L0000085	0	0.36364E-02	484010.4	3717675.9	471.4	3.40	1.45	1.47	YES	HRDOW7
L0000086	0	0.36364E-02	484011.0	3717679.0	471.4	3.40	1.45	1.47	YES	HRDOW7
L0000087	0	0.36364E-02	484011.6	3717682.0	471.4	3.40	1.45	1.47	YES	HRDOW7
L0000088	0	0.36364E-02	484012.3	3717685.1	471.4	3.40	1.45	1.47	YES	HRDOW7
L0000089	0	0.36364E-02	484012.9	3717688.1	471.5	3.40	1.45	1.47	YES	HRDOW7
L0000090	0	0.36364E-02	484013.5	3717691.2	471.5	3.40	1.45	1.47	YES	HRDOW7
L0000091	0	0.36364E-02	484014.1	3717694.2	471.5	3.40	1.45	1.47	YES	HRDOW7
L0000092	0	0.36364E-02	484014.8	3717697.3	471.5	3.40	1.45	1.47	YES	HRDOW7
L0000093	0	0.36364E-02	484015.4	3717700.3	471.4	3.40	1.45	1.47	YES	HRDOW7
L0000094	0	0.36364E-02	484016.0	3717703.4	471.4	3.40	1.45	1.47	YES	HRDOW7
L0000095	0	0.36364E-02	484016.6	3717706.5	471.4	3.40	1.45	1.47	YES	HRDOW7
L0000096	0	0.36364E-02	484017.3	3717709.5	471.4	3.40	1.45	1.47	YES	HRDOW7
L0000097	0	0.36364E-02	484017.9	3717712.6	471.4	3.40	1.45	1.47	YES	HRDOW7
L0000098	0	0.36364E-02	484018.5	3717715.6	471.3	3.40	1.45	1.47	YES	HRDOW7
L0000099	0	0.36364E-02	484019.1	3717718.7	471.3	3.40	1.45	1.47	YES	HRDOW7
L0000100	0	0.36364E-02	484019.8	3717721.7	471.2	3.40	1.45	1.47	YES	HRDOW7
L0000101	0	0.36364E-02	484020.4	3717724.8	471.2	3.40	1.45	1.47	YES	HRDOW7
L0000102	0	0.36364E-02	484021.0	3717727.9	471.1	3.40	1.45	1.47	YES	HRDOW7
L0000103	0	0.36364E-02	484021.6	3717730.9	471.0	3.40	1.45	1.47	YES	HRDOW7

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 L0000104         0   0.36364E-02  484022.3 3717734.0   471.0     3.40     1.45
1.47     YES   HRDOW7
 L0000105         0   0.36364E-02  484022.9 3717737.0   470.9     3.40     1.45
1.47     YES   HRDOW7
 L0000106         0   0.36364E-02  484023.5 3717740.1   470.8     3.40     1.45
1.47     YES   HRDOW7
 L0000107         0   0.36364E-02  484024.1 3717743.1   470.8     3.40     1.45
1.47     YES   HRDOW7
 L0000108         0   0.36364E-02  484024.8 3717746.2   470.7     3.40     1.45
1.47     YES   HRDOW7
 L0000109         0   0.36364E-02  484025.4 3717749.3   470.6     3.40     1.45
1.47     YES   HRDOW7
 L0000110         0   0.36364E-02  484026.0 3717752.3   470.5     3.40     1.45
1.47     YES   HRDOW7
 L0000111         0   0.36364E-02  484026.6 3717755.4   470.4     3.40     1.45
1.47     YES   HRDOW7
 L0000112         0   0.36364E-02  484027.3 3717758.4   470.2     3.40     1.45
1.47     YES   HRDOW7
 L0000113         0   0.36364E-02  484027.9 3717761.5   470.1     3.40     1.45
1.47     YES   HRDOW7
 L0000114         0   0.36364E-02  484028.5 3717764.5   469.9     3.40     1.45
1.47     YES   HRDOW7
 L0000115         0   0.36364E-02  484029.1 3717767.6   469.8     3.40     1.45
1.47     YES   HRDOW7
 L0000116         0   0.36364E-02  484029.8 3717770.7   469.7     3.40     1.45
1.47     YES   HRDOW7
 L0000117         0   0.36364E-02  484030.4 3717773.7   469.6     3.40     1.45
1.47     YES   HRDOW7
 L0000118         0   0.36364E-02  484031.0 3717776.8   469.6     3.40     1.45
1.47     YES   HRDOW7
 L0000119         0   0.36364E-02  484031.6 3717779.8   469.5     3.40     1.45
1.47     YES   HRDOW7
 L0000120         0   0.36364E-02  484032.3 3717782.9   469.4     3.40     1.45
1.47     YES   HRDOW7
```


 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE	NUMBER PART.	EMISSION RATE (GRAMS/SEC)	X	Y	BASE ELEV.	RELEASE HEIGHT	INIT. SY	INIT.	URBAN	EMISSION RATE

SZ (METERS)	SOURCE ID	SCALAR CATS.	VARY BY						
L0000121		0	0.36364E-02	484032.9	3717785.9	469.4	3.40	1.45	1.47
L0000122		0	0.36364E-02	484033.5	3717789.0	469.3	3.40	1.45	1.47
L0000123		0	0.36364E-02	484034.1	3717792.1	469.3	3.40	1.45	1.47
L0000124		0	0.36364E-02	484034.8	3717795.1	469.2	3.40	1.45	1.47
L0000125		0	0.36364E-02	484035.4	3717798.2	469.2	3.40	1.45	1.47
L0000126		0	0.36364E-02	484036.0	3717801.2	469.3	3.40	1.45	1.47
L0000127		0	0.36364E-02	484036.6	3717804.3	469.3	3.40	1.45	1.47
L0000128		0	0.36364E-02	484037.3	3717807.3	469.3	3.40	1.45	1.47
L0000129		0	0.36364E-02	484037.9	3717810.4	469.4	3.40	1.45	1.47
L0000130		0	0.36364E-02	484038.5	3717813.5	469.4	3.40	1.45	1.47
L0000131		0	0.36364E-02	484039.1	3717816.5	469.4	3.40	1.45	1.47
L0000132		0	0.36364E-02	484039.8	3717819.6	469.4	3.40	1.45	1.47
L0000133		0	0.36364E-02	484040.4	3717822.6	469.4	3.40	1.45	1.47
L0000134		0	0.36364E-02	484041.0	3717825.7	469.4	3.40	1.45	1.47
L0000135		0	0.36364E-02	484041.6	3717828.7	469.4	3.40	1.45	1.47
L0000136		0	0.36364E-02	484042.3	3717831.8	469.4	3.40	1.45	1.47
L0000137		0	0.36364E-02	484042.9	3717834.8	469.4	3.40	1.45	1.47
L0000138		0	0.36364E-02	484043.5	3717837.9	469.4	3.40	1.45	1.47
L0000139		0	0.36364E-02	484044.1	3717841.0	469.5	3.40	1.45	1.47
L0000140		0	0.36364E-02	484044.8	3717844.0	469.5	3.40	1.45	1.47
L0000141		0	0.36364E-02	484045.4	3717847.1	469.5	3.40	1.45	1.47

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 L0000142         0   0.36364E-02  484046.0 3717850.1   469.4     3.40     1.45
1.47     YES   HRDOW7
 L0000143         0   0.36364E-02  484046.6 3717853.2   469.4     3.40     1.45
1.47     YES   HRDOW7
 L0000144         0   0.36364E-02  484047.3 3717856.2   469.3     3.40     1.45
1.47     YES   HRDOW7
 L0000145         0   0.36364E-02  484047.9 3717859.3   469.4     3.40     1.45
1.47     YES   HRDOW7
 L0000146         0   0.36364E-02  484048.5 3717862.4   469.4     3.40     1.45
1.47     YES   HRDOW7
 L0000147         0   0.36364E-02  484049.1 3717865.4   469.5     3.40     1.45
1.47     YES   HRDOW7
 L0000148         0   0.36364E-02  484049.8 3717868.5   469.4     3.40     1.45
1.47     YES   HRDOW7
 L0000149         0   0.36364E-02  484050.4 3717871.5   469.4     3.40     1.45
1.47     YES   HRDOW7
 L0000150         0   0.36364E-02  484051.0 3717874.6   469.3     3.40     1.45
1.47     YES   HRDOW7
 L0000151         0   0.36364E-02  484051.6 3717877.6   469.3     3.40     1.45
1.47     YES   HRDOW7
 L0000152         0   0.36364E-02  484052.3 3717880.7   469.4     3.40     1.45
1.47     YES   HRDOW7
 L0000153         0   0.36364E-02  484052.9 3717883.8   469.5     3.40     1.45
1.47     YES   HRDOW7
 L0000154         0   0.36364E-02  484053.5 3717886.8   469.6     3.40     1.45
1.47     YES   HRDOW7
 L0000155         0   0.36364E-02  484054.1 3717889.9   469.4     3.40     1.45
1.47     YES   HRDOW7
 L0000156         0   0.36364E-02  484054.8 3717892.9   469.3     3.40     1.45
1.47     YES   HRDOW7
 L0000157         0   0.36364E-02  484055.4 3717896.0   469.2     3.40     1.45
1.47     YES   HRDOW7
 L0000158         0   0.36364E-02  484056.0 3717899.0   469.2     3.40     1.45
1.47     YES   HRDOW7
 L0000159         0   0.36364E-02  484056.6 3717902.1   469.1     3.40     1.45
1.47     YES   HRDOW7
 L0000160         0   0.36364E-02  484057.3 3717905.2   469.1     3.40     1.45
1.47     YES   HRDOW7
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE   7
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                *** VOLUME SOURCE DATA ***
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SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE VARY BY
L0000161	0	0.36364E-02	484057.9	3717908.2	469.0	3.40	1.45	1.47	YES	HRDOW7
L0000162	0	0.36364E-02	484058.5	3717911.3	468.9	3.40	1.45	1.47	YES	HRDOW7
L0000163	0	0.36364E-02	484059.1	3717914.3	468.9	3.40	1.45	1.47	YES	HRDOW7
L0000164	0	0.36364E-02	484059.8	3717917.4	468.8	3.40	1.45	1.47	YES	HRDOW7
L0000165	0	0.36364E-02	484060.4	3717920.4	468.8	3.40	1.45	1.47	YES	HRDOW7
L0000166	0	0.36364E-02	484061.0	3717923.5	468.7	3.40	1.45	1.47	YES	HRDOW7
L0000167	0	0.36364E-02	484061.6	3717926.6	468.6	3.40	1.45	1.47	YES	HRDOW7
L0000168	0	0.36364E-02	484062.2	3717929.6	468.6	3.40	1.45	1.47	YES	HRDOW7
L0000169	0	0.36364E-02	484062.9	3717932.7	468.6	3.40	1.45	1.47	YES	HRDOW7
L0000170	0	0.36364E-02	484063.5	3717935.7	468.6	3.40	1.45	1.47	YES	HRDOW7
L0000171	0	0.36364E-02	484064.1	3717938.8	468.6	3.40	1.45	1.47	YES	HRDOW7
L0000172	0	0.36364E-02	484064.7	3717941.8	468.6	3.40	1.45	1.47	YES	HRDOW7
L0000173	0	0.36364E-02	484065.4	3717944.9	468.6	3.40	1.45	1.47	YES	HRDOW7
L0000174	0	0.36364E-02	484063.2	3717946.5	468.5	3.40	1.45	1.47	YES	HRDOW7
L0000175	0	0.36364E-02	484060.4	3717947.9	468.4	3.40	1.45	1.47	YES	HRDOW7
L0000176	0	0.36364E-02	484057.5	3717949.2	468.4	3.40	1.45	1.47	YES	HRDOW7
L0000177	0	0.36364E-02	484054.7	3717950.6	468.5	3.40	1.45	1.47	YES	HRDOW7
L0000178	0	0.36364E-02	484051.9	3717951.9	468.5	3.40	1.45	1.47	YES	HRDOW7
L0000179	0	0.36364E-02	484049.1	3717953.3	468.6	3.40	1.45	1.47	YES	HRDOW7

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 L0000180         0   0.36364E-02  484047.8 3717951.1   468.5     3.40     1.45
1.47     YES   HRDOW7
 L0000181         0   0.36364E-02  484046.8 3717948.1   468.5     3.40     1.45
1.47     YES   HRDOW7
 L0000182         0   0.36364E-02  484045.9 3717945.1   468.4     3.40     1.45
1.47     YES   HRDOW7
 L0000183         0   0.36364E-02  484044.9 3717942.2   468.4     3.40     1.45
1.47     YES   HRDOW7
 L0000184         0   0.36364E-02  484043.9 3717939.2   468.3     3.40     1.45
1.47     YES   HRDOW7
 L0000185         0   0.36364E-02  484042.9 3717936.2   468.2     3.40     1.45
1.47     YES   HRDOW7
 L0000186         0   0.36364E-02  484042.0 3717933.3   468.1     3.40     1.45
1.47     YES   HRDOW7
 L0000187         0   0.36364E-02  484041.0 3717930.3   467.9     3.40     1.45
1.47     YES   HRDOW7
 L0000188         0   0.36364E-02  484040.0 3717927.4   467.8     3.40     1.45
1.47     YES   HRDOW7
 L0000189         0   0.36364E-02  484039.1 3717924.4   467.8     3.40     1.45
1.47     YES   HRDOW7
 L0000190         0   0.36364E-02  484038.1 3717921.4   467.7     3.40     1.45
1.47     YES   HRDOW7
 L0000191         0   0.36364E-02  484037.1 3717918.5   467.6     3.40     1.45
1.47     YES   HRDOW7
 L0000192         0   0.36364E-02  484036.1 3717915.5   467.6     3.40     1.45
1.47     YES   HRDOW7
 L0000193         0   0.36364E-02  484035.2 3717912.5   467.5     3.40     1.45
1.47     YES   HRDOW7
 L0000194         0   0.36364E-02  484034.2 3717909.6   467.4     3.40     1.45
1.47     YES   HRDOW7
 L0000195         0   0.36364E-02  484033.2 3717906.6   467.4     3.40     1.45
1.47     YES   HRDOW7
 L0000196         0   0.36364E-02  484032.3 3717903.6   467.3     3.40     1.45
1.47     YES   HRDOW7
 L0000197         0   0.36364E-02  484031.3 3717900.7   467.3     3.40     1.45
1.47     YES   HRDOW7
 L0000198         0   0.36364E-02  484030.3 3717897.7   467.3     3.40     1.45
1.47     YES   HRDOW7
 L0000199         0   0.36364E-02  484029.3 3717894.7   467.4     3.40     1.45
1.47     YES   HRDOW7
 L0000200         0   0.36364E-02  484028.4 3717891.8   467.7     3.40     1.45
1.47     YES   HRDOW7
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE VARY BY
L0000201	0	0.36364E-02	484027.4	3717888.8	468.0	3.40	1.45	1.47	YES	HRDOW7
L0000202	0	0.36364E-02	484026.4	3717885.8	468.3	3.40	1.45	1.47	YES	HRDOW7
L0000203	0	0.36364E-02	484025.5	3717882.9	468.1	3.40	1.45	1.47	YES	HRDOW7
L0000204	0	0.36364E-02	484024.5	3717879.9	467.8	3.40	1.45	1.47	YES	HRDOW7
L0000205	0	0.36364E-02	484023.5	3717877.0	467.6	3.40	1.45	1.47	YES	HRDOW7
L0000206	0	0.36364E-02	484022.5	3717874.0	467.5	3.40	1.45	1.47	YES	HRDOW7
L0000207	0	0.36364E-02	484021.6	3717871.0	467.4	3.40	1.45	1.47	YES	HRDOW7
L0000208	0	0.36364E-02	484020.6	3717868.1	467.4	3.40	1.45	1.47	YES	HRDOW7
L0000209	0	0.36364E-02	484019.6	3717865.1	467.4	3.40	1.45	1.47	YES	HRDOW7
L0000210	0	0.36364E-02	484018.7	3717862.1	467.4	3.40	1.45	1.47	YES	HRDOW7
L0000211	0	0.36364E-02	484017.7	3717859.2	467.4	3.40	1.45	1.47	YES	HRDOW7
L0000212	0	0.36364E-02	484016.7	3717856.2	467.4	3.40	1.45	1.47	YES	HRDOW7
L0000213	0	0.36364E-02	484015.7	3717853.2	467.4	3.40	1.45	1.47	YES	HRDOW7
L0000214	0	0.36364E-02	484014.8	3717850.3	467.4	3.40	1.45	1.47	YES	HRDOW7
L0000215	0	0.36364E-02	484013.8	3717847.3	467.4	3.40	1.45	1.47	YES	HRDOW7
L0000216	0	0.36364E-02	484012.8	3717844.3	467.4	3.40	1.45	1.47	YES	HRDOW7
L0000217	0	0.36364E-02	484011.9	3717841.4	467.4	3.40	1.45	1.47	YES	HRDOW7

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 L0000218         0   0.36364E-02  484010.9 3717838.4   467.3     3.40     1.45
1.47     YES   HRDOW7
 L0000219         0   0.36364E-02  484009.9 3717835.4   467.3     3.40     1.45
1.47     YES   HRDOW7
 L0000220         0   0.36364E-02  484008.9 3717832.5   467.3     3.40     1.45
1.47     YES   HRDOW7
 L0000221         0   0.36364E-02  484008.0 3717829.5   467.2     3.40     1.45
1.47     YES   HRDOW7
 L0000222         0   0.36364E-02  484007.0 3717826.5   467.2     3.40     1.45
1.47     YES   HRDOW7
 L0000223         0   0.36364E-02  484006.0 3717823.6   467.2     3.40     1.45
1.47     YES   HRDOW7
 L0000224         0   0.36364E-02  484005.1 3717820.6   467.2     3.40     1.45
1.47     YES   HRDOW7
 L0000225         0   0.36364E-02  484004.1 3717817.7   467.2     3.40     1.45
1.47     YES   HRDOW7
 L0000226         0   0.36364E-02  484003.1 3717814.7   467.3     3.40     1.45
1.47     YES   HRDOW7
 L0000227         0   0.36364E-02  484002.1 3717811.7   467.2     3.40     1.45
1.47     YES   HRDOW7
 L0000228         0   0.36364E-02  484001.2 3717808.8   467.2     3.40     1.45
1.47     YES   HRDOW7
 L0000229         0   0.36364E-02  484000.2 3717805.8   467.1     3.40     1.45
1.47     YES   HRDOW7
 L0000230         0   0.36364E-02  483999.2 3717802.8   467.1     3.40     1.45
1.47     YES   HRDOW7
 L0000231         0   0.36364E-02  483998.2 3717799.9   467.2     3.40     1.45
1.47     YES   HRDOW7
 L0000232         0   0.36364E-02  483997.3 3717796.9   467.2     3.40     1.45
1.47     YES   HRDOW7
 L0000233         0   0.36364E-02  483996.3 3717793.9   467.2     3.40     1.45
1.47     YES   HRDOW7
 L0000234         0   0.36364E-02  483995.3 3717791.0   467.2     3.40     1.45
1.47     YES   HRDOW7
 L0000235         0   0.36364E-02  483994.4 3717788.0   467.3     3.40     1.45
1.47     YES   HRDOW7
 L0000236         0   0.36364E-02  483993.4 3717785.0   467.3     3.40     1.45
1.47     YES   HRDOW7
 L0000237         0   0.36364E-02  483992.4 3717782.1   467.4     3.40     1.45
1.47     YES   HRDOW7
 L0000238         0   0.36364E-02  483991.4 3717779.1   467.4     3.40     1.45
1.47     YES   HRDOW7
 L0000239         0   0.36364E-02  483990.5 3717776.1   467.4     3.40     1.45
1.47     YES   HRDOW7
 L0000240         0   0.36364E-02  483989.5 3717773.2   467.4     3.40     1.45
1.47     YES   HRDOW7
```

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000241	0	0.36364E-02	483988.5	3717770.2	467.5	3.40	1.45	1.47	YES	HRDOW7
L0000242	0	0.36364E-02	483987.6	3717767.3	467.4	3.40	1.45	1.47	YES	HRDOW7
L0000243	0	0.36364E-02	483986.6	3717764.3	467.4	3.40	1.45	1.47	YES	HRDOW7
L0000244	0	0.36364E-02	483985.6	3717761.3	467.4	3.40	1.45	1.47	YES	HRDOW7
L0000245	0	0.36364E-02	483984.6	3717758.4	467.5	3.40	1.45	1.47	YES	HRDOW7
L0000246	0	0.36364E-02	483983.7	3717755.4	467.5	3.40	1.45	1.47	YES	HRDOW7
L0000247	0	0.36364E-02	483982.7	3717752.4	467.6	3.40	1.45	1.47	YES	HRDOW7
L0000248	0	0.36364E-02	483981.7	3717749.5	467.6	3.40	1.45	1.47	YES	HRDOW7
L0000249	0	0.36364E-02	483980.8	3717746.5	467.6	3.40	1.45	1.47	YES	HRDOW7
L0000250	0	0.36364E-02	483979.8	3717743.5	467.7	3.40	1.45	1.47	YES	HRDOW7
L0000251	0	0.36364E-02	483978.8	3717740.6	467.6	3.40	1.45	1.47	YES	HRDOW7
L0000252	0	0.36364E-02	483977.8	3717737.6	467.6	3.40	1.45	1.47	YES	HRDOW7
L0000253	0	0.36364E-02	483976.9	3717734.6	467.6	3.40	1.45	1.47	YES	HRDOW7
L0000254	0	0.36364E-02	483975.9	3717731.7	467.5	3.40	1.45	1.47	YES	HRDOW7
L0000255	0	0.36364E-02	483974.9	3717728.7	467.5	3.40	1.45	1.47	YES	HRDOW7

L0000256	0	0.36364E-02	483974.0	3717725.7	467.6	3.40	1.45	1.47
YES	HRDOW7							
L0000257	0	0.36364E-02	483973.0	3717722.8	467.6	3.40	1.45	1.47
YES	HRDOW7							
L0000258	0	0.36364E-02	483972.0	3717719.8	467.5	3.40	1.45	1.47
YES	HRDOW7							
L0000259	0	0.36364E-02	483971.0	3717716.8	467.5	3.40	1.45	1.47
YES	HRDOW7							
L0000260	0	0.36364E-02	483970.1	3717713.9	467.5	3.40	1.45	1.47
YES	HRDOW7							
L0000261	0	0.36364E-02	483969.1	3717710.9	467.4	3.40	1.45	1.47
YES	HRDOW7							
L0000262	0	0.36364E-02	483968.1	3717708.0	467.4	3.40	1.45	1.47
YES	HRDOW7							
L0000263	0	0.36364E-02	483967.2	3717705.0	467.4	3.40	1.45	1.47
YES	HRDOW7							
L0000264	0	0.36364E-02	483966.2	3717702.0	467.3	3.40	1.45	1.47
YES	HRDOW7							
L0000265	0	0.36364E-02	483965.2	3717699.1	467.3	3.40	1.45	1.47
YES	HRDOW7							
L0000266	0	0.36364E-02	483964.2	3717696.1	467.3	3.40	1.45	1.47
YES	HRDOW7							
L0000267	0	0.36364E-02	483963.3	3717693.1	467.3	3.40	1.45	1.47
YES	HRDOW7							
L0000268	0	0.36364E-02	483963.6	3717690.4	467.5	3.40	1.45	1.47
YES	HRDOW7							
L0000269	0	0.36364E-02	483965.4	3717687.8	467.8	3.40	1.45	1.47
YES	HRDOW7							
L0000270	0	0.36364E-02	483967.2	3717685.3	468.0	3.40	1.45	1.47
YES	HRDOW7							
L0000271	0	0.36364E-02	483969.0	3717682.8	468.3	3.40	1.45	1.47
YES	HRDOW7							
L0000272	0	0.36364E-02	483970.8	3717680.2	468.5	3.40	1.45	1.47
YES	HRDOW7							
L0000273	0	0.36364E-02	483972.7	3717677.7	468.8	3.40	1.45	1.47
YES	HRDOW7							
L0000274	0	0.36364E-02	483974.5	3717675.2	469.1	3.40	1.45	1.47
YES	HRDOW7							
L0000275	0	0.36364E-02	483976.3	3717672.6	469.4	3.40	1.45	1.47
YES	HRDOW7							
L0000276	0	0.36364E-02	483978.1	3717670.1	469.7	3.40	1.45	1.47
YES	HRDOW7							
L0000277	0	0.36364E-02	483979.9	3717667.5	470.0	3.40	1.45	1.47
YES	HRDOW7							
L0000278	0	0.36364E-02	483981.8	3717665.0	470.2	3.40	1.45	1.47
YES	HRDOW7							
L0000279	0	0.36364E-02	483983.4	3717663.4	470.4	3.40	1.45	1.47
YES	HRDOW7							

 L0000280   0   0.36364E-02 483984.2 3717666.4   470.3   3.40   1.45
1.47   YES   HRDOW7

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
 -
- -

 L0000281   0   0.36364E-02 483984.9 3717669.4   470.3   3.40   1.45
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1.47   YES   HRDOW7
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1.47   YES   HRDOW7
 L0000284   0   0.36364E-02 483987.2 3717678.5   470.1   3.40   1.45
1.47   YES   HRDOW7
 L0000285   0   0.36364E-02 483988.0 3717681.5   470.0   3.40   1.45
1.47   YES   HRDOW7
 L0000286   0   0.36364E-02 483988.7 3717684.5   470.1   3.40   1.45
1.47   YES   HRDOW7
 L0000287   0   0.36364E-02 483989.5 3717687.6   470.1   3.40   1.45
1.47   YES   HRDOW7
 L0000288   0   0.36364E-02 483990.2 3717690.6   470.1   3.40   1.45
1.47   YES   HRDOW7
 L0000289   0   0.36364E-02 483991.0 3717693.6   470.2   3.40   1.45
1.47   YES   HRDOW7
 L0000290   0   0.36364E-02 483991.8 3717696.6   470.2   3.40   1.45
1.47   YES   HRDOW7
 L0000291   0   0.36364E-02 483992.5 3717699.7   470.3   3.40   1.45
1.47   YES   HRDOW7
 L0000292   0   0.36364E-02 483993.3 3717702.7   470.3   3.40   1.45
1.47   YES   HRDOW7
 L0000293   0   0.36364E-02 483994.0 3717705.7   470.3   3.40   1.45
1.47   YES   HRDOW7

L0000294	0	0.36364E-02	483994.8	3717708.8	470.2	3.40	1.45	1.47
YES	HRDOW7							
L0000295	0	0.36364E-02	483995.6	3717711.8	470.2	3.40	1.45	1.47
YES	HRDOW7							
L0000296	0	0.36364E-02	483996.3	3717714.8	470.2	3.40	1.45	1.47
YES	HRDOW7							
L0000297	0	0.36364E-02	483997.1	3717717.8	470.1	3.40	1.45	1.47
YES	HRDOW7							
L0000298	0	0.36364E-02	483997.8	3717720.9	470.1	3.40	1.45	1.47
YES	HRDOW7							
L0000299	0	0.36364E-02	483998.6	3717723.9	470.0	3.40	1.45	1.47
YES	HRDOW7							
L0000300	0	0.36364E-02	483999.3	3717726.9	470.0	3.40	1.45	1.47
YES	HRDOW7							
L0000301	0	0.36364E-02	484000.1	3717729.9	469.9	3.40	1.45	1.47
YES	HRDOW7							
L0000302	0	0.36364E-02	484000.9	3717733.0	469.8	3.40	1.45	1.47
YES	HRDOW7							
L0000303	0	0.36364E-02	484001.6	3717736.0	469.7	3.40	1.45	1.47
YES	HRDOW7							
L0000304	0	0.36364E-02	484002.4	3717739.0	469.7	3.40	1.45	1.47
YES	HRDOW7							
L0000305	0	0.36364E-02	484003.1	3717742.0	469.6	3.40	1.45	1.47
YES	HRDOW7							
L0000306	0	0.36364E-02	484003.9	3717745.1	469.5	3.40	1.45	1.47
YES	HRDOW7							
L0000307	0	0.36364E-02	484004.7	3717748.1	469.5	3.40	1.45	1.47
YES	HRDOW7							
L0000308	0	0.36364E-02	484005.4	3717751.1	469.4	3.40	1.45	1.47
YES	HRDOW7							
L0000309	0	0.36364E-02	484006.2	3717754.1	469.3	3.40	1.45	1.47
YES	HRDOW7							
L0000310	0	0.36364E-02	484006.9	3717757.2	469.2	3.40	1.45	1.47
YES	HRDOW7							
L0000311	0	0.36364E-02	484007.7	3717760.2	469.2	3.40	1.45	1.47
YES	HRDOW7							
L0000312	0	0.36364E-02	484008.5	3717763.2	469.1	3.40	1.45	1.47
YES	HRDOW7							
L0000313	0	0.36364E-02	484009.2	3717766.2	468.9	3.40	1.45	1.47
YES	HRDOW7							
L0000314	0	0.36364E-02	484010.0	3717769.3	468.9	3.40	1.45	1.47
YES	HRDOW7							
L0000315	0	0.36364E-02	484010.7	3717772.3	468.7	3.40	1.45	1.47
YES	HRDOW7							
L0000316	0	0.36364E-02	484011.5	3717775.3	468.7	3.40	1.45	1.47
YES	HRDOW7							
L0000317	0	0.36364E-02	484012.3	3717778.4	468.6	3.40	1.45	1.47
YES	HRDOW7							

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 L0000318         0   0.36364E-02  484013.0 3717781.4   468.5     3.40     1.45
1.47     YES   HRDOW7
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1.47     YES   HRDOW7
 L0000320         0   0.36364E-02  484014.5 3717787.4   468.4     3.40     1.45
1.47     YES   HRDOW7
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE  11
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                      *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0000321         0   0.36364E-02  484015.3 3717790.5   468.3     3.40     1.45
1.47     YES   HRDOW7
 L0000322         0   0.36364E-02  484016.0 3717793.5   468.2     3.40     1.45
1.47     YES   HRDOW7
 L0000323         0   0.36364E-02  484016.8 3717796.5   468.2     3.40     1.45
1.47     YES   HRDOW7
 L0000324         0   0.36364E-02  484017.6 3717799.5   468.2     3.40     1.45
1.47     YES   HRDOW7
 L0000325         0   0.36364E-02  484018.3 3717802.6   468.2     3.40     1.45
1.47     YES   HRDOW7
 L0000326         0   0.36364E-02  484019.1 3717805.6   468.2     3.40     1.45
1.47     YES   HRDOW7
 L0000327         0   0.36364E-02  484019.8 3717808.6   468.3     3.40     1.45
1.47     YES   HRDOW7
 L0000328         0   0.36364E-02  484020.6 3717811.6   468.3     3.40     1.45
1.47     YES   HRDOW7
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1.47     YES   HRDOW7
 L0000330         0   0.36364E-02  484022.1 3717817.7   468.3     3.40     1.45
1.47     YES   HRDOW7
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1.47     YES   HRDOW7
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1.47     YES   HRDOW7
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1.47     YES   HRDOW7
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1.47     YES   HRDOW7
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1.47     YES   HRDOW7
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1.47     YES   HRDOW7
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1.47     YES   HRDOW7
 L0000349         0   0.36364E-02  484036.5 3717875.2   468.4     3.40     1.45
1.47     YES   HRDOW7
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID   SOURCE IDs

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  GEN2       GEN2        ,

  GEN3       GEN3        ,

  GEN4       GEN4        ,

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 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***        09:53:15

                                    PAGE  13
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                 *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID                                                 SOURCE IDs
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 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***        09:53:15

                                   PAGE  14
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID                                                    SOURCE IDs
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  ALL        L0000001    , L0000002    , L0000003    , L0000004    , L0000005    ,
L0000006    , L0000007    , L0000008    ,

             L0000009    , L0000010    , L0000011    , L0000012    , L0000013    ,
L0000014    , L0000015    , L0000016    ,

             L0000017    , L0000018    , L0000019    , L0000020    , L0000021    ,
L0000022    , L0000023    , L0000024    ,

             L0000025    , L0000026    , L0000027    , L0000028    , L0000029    ,
L0000030    , L0000031    , L0000032    ,

             L0000033    , L0000034    , L0000035    , L0000036    , L0000037    ,
L0000038    , L0000039    , L0000040    ,

             L0000041    , L0000042    , L0000043    , L0000044    , L0000045    ,
L0000046    , L0000047    , L0000048    ,

             L0000049    , L0000050    , L0000051    , L0000052    , L0000053    ,
L0000054    , L0000055    , L0000056    ,
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L0000062    , L0000063    , L0000064    ,

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L0000070    , L0000071    , L0000072    ,

             L0000073    , L0000074    , L0000075    , L0000076    , L0000077    ,
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L0000086    , L0000087    , L0000088    ,
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***        09:53:15

                                    PAGE  15
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID                                                 SOURCE IDs
 -----------                                                 ----------


             L0000089    , L0000090    , L0000091    , L0000092    , L0000093    ,
L0000094    , L0000095    , L0000096    ,

             L0000097    , L0000098    , L0000099    , L0000100    , L0000101    ,
L0000102    , L0000103    , L0000104    ,

             L0000105    , L0000106    , L0000107    , L0000108    , L0000109    ,
L0000110    , L0000111    , L0000112    ,

             L0000113    , L0000114    , L0000115    , L0000116    , L0000117    ,
L0000118    , L0000119    , L0000120    ,

             L0000121    , L0000122    , L0000123    , L0000124    , L0000125    ,
L0000126    , L0000127    , L0000128    ,

             L0000129    , L0000130    , L0000131    , L0000132    , L0000133    ,
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L0000142    , L0000143    , L0000144    ,
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L0000150    , L0000151    , L0000152    ,

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L0000158    , L0000159    , L0000160    ,

             L0000161    , L0000162    , L0000163    , L0000164    , L0000165    ,
L0000166    , L0000167    , L0000168    ,

             L0000169    , L0000170    , L0000171    , L0000172    , L0000173    ,
L0000174    , L0000175    , L0000176    ,

             L0000177    , L0000178    , L0000179    , L0000180    , L0000181    ,
L0000182    , L0000183    , L0000184    ,

             L0000185    , L0000186    , L0000187    , L0000188    , L0000189    ,
L0000190    , L0000191    , L0000192    ,

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L0000198    , L0000199    , L0000200    ,

             L0000201    , L0000202    , L0000203    , L0000204    , L0000205    ,
L0000206    , L0000207    , L0000208    ,

             L0000209    , L0000210    , L0000211    , L0000212    , L0000213    ,
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             L0000217    , L0000218    , L0000219    , L0000220    , L0000221    ,
L0000222    , L0000223    , L0000224    ,

             L0000225    , L0000226    , L0000227    , L0000228    , L0000229    ,
L0000230    , L0000231    , L0000232    ,

             L0000233    , L0000234    , L0000235    , L0000236    , L0000237    ,
L0000238    , L0000239    , L0000240    ,

             L0000241    , L0000242    , L0000243    , L0000244    , L0000245    ,
L0000246    , L0000247    , L0000248    ,
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID | SOURCE IDs

L0000249 , L0000250 , L0000251 , L0000252 , L0000253 , L0000254 , L0000255 , L0000256 ,

L0000257 , L0000258 , L0000259 , L0000260 , L0000261 , L0000262 , L0000263 , L0000264 ,

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L0000297 , L0000298 , L0000299 , L0000300 , L0000301 , L0000302 , L0000303 , L0000304 ,

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L0000313 , L0000314 , L0000315 , L0000316 , L0000317 , L0000318 , L0000319 , L0000320 ,

L0000321 , L0000322 , L0000323 , L0000324 , L0000325 , L0000326 , L0000327 , L0000328 ,

L0000329 , L0000330 , L0000331 , L0000332 , L0000333 , L0000334 , L0000335 , L0000336 ,

L0000337 , L0000338 , L0000339 , L0000340 , L0000341 , L0000342 , L0000343 , L0000344 ,

L0000345 , L0000346 , L0000347 , L0000348 , L0000349 , GEN1 , GEN2 , GEN3 ,

GEN4 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
	2189641.	L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 ,
		L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 ,
		L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 ,
		L0000025 , L0000026 , L0000027 , L0000028 , L0000029 , L0000030 , L0000031 , L0000032 ,
		L0000033 , L0000034 , L0000035 , L0000036 , L0000037 , L0000038 , L0000039 , L0000040 ,
		L0000041 , L0000042 , L0000043 , L0000044 , L0000045 , L0000046 , L0000047 , L0000048 ,
		L0000049 , L0000050 , L0000051 , L0000052 , L0000053 , L0000054 , L0000055 , L0000056 ,
		L0000057 , L0000058 , L0000059 , L0000060 , L0000061 , L0000062 , L0000063 , L0000064 ,
		L0000065 , L0000066 , L0000067 , L0000068 , L0000069 , L0000070 , L0000071 , L0000072 ,
		L0000073 , L0000074 , L0000075 , L0000076 , L0000077 , L0000078 , L0000079 , L0000080 ,
		L0000081 , L0000082 , L0000083 , L0000084 , L0000085 , L0000086 , L0000087 , L0000088 ,
		L0000089 , L0000090 , L0000091 , L0000092 , L0000093 ,

L0000094 , L0000095 , L0000096 ,

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L0000145 , L0000146 , L0000147 , L0000148 , L0000149 , L0000150 , L0000151 , L0000152 ,

L0000153 , L0000154 , L0000155 , L0000156 , L0000157 , L0000158 , L0000159 , L0000160 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

L0000161 , L0000162 , L0000163 , L0000164 , L0000165 , L0000166 , L0000167 , L0000168 ,

L0000169 , L0000170 , L0000171 , L0000172 , L0000173 , L0000174 , L0000175 , L0000176 ,

L0000177 , L0000178 , L0000179 , L0000180 , L0000181 ,

L0000182 , L0000183 , L0000184 ,

L0000185 , L0000186 , L0000187 , L0000188 , L0000189 ,
L0000190 , L0000191 , L0000192 ,

L0000193 , L0000194 , L0000195 , L0000196 , L0000197 ,
L0000198 , L0000199 , L0000200 ,

L0000201 , L0000202 , L0000203 , L0000204 , L0000205 ,
L0000206 , L0000207 , L0000208 ,

L0000209 , L0000210 , L0000211 , L0000212 , L0000213 ,
L0000214 , L0000215 , L0000216 ,

L0000217 , L0000218 , L0000219 , L0000220 , L0000221 ,
L0000222 , L0000223 , L0000224 ,

L0000225 , L0000226 , L0000227 , L0000228 , L0000229 ,
L0000230 , L0000231 , L0000232 ,

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L0000302 , L0000303 , L0000304 ,

L0000305 , L0000306 , L0000307 , L0000308 , L0000309 ,

L0000310 , L0000311 , L0000312 ,

L0000313 , L0000314 , L0000315 , L0000316 , L0000317 ,
L0000318 , L0000319 , L0000320 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES
***

URBAN ID	URBAN POP	SOURCE IDs

L0000321 , L0000322 , L0000323 , L0000324 , L0000325 ,
L0000326 , L0000327 , L0000328 ,

L0000329 , L0000330 , L0000331 , L0000332 , L0000333 ,
L0000334 , L0000335 , L0000336 ,

L0000337 , L0000338 , L0000339 , L0000340 , L0000341 ,
L0000342 , L0000343 , L0000344 ,

L0000345 , L0000346 , L0000347 , L0000348 , L0000349 ,
GEN1 , GEN2 , GEN3 ,

GEN4 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000001 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

- -

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE  21
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000002     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
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6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***       09:53:15

                                  PAGE  22
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000003     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
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22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                         ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***       09:53:15

                                  PAGE  23
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000004     ; SOURCE TYPE = VOLUME   :
```

```
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                    DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
```

6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000005 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = MONDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00

22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000006 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01

```
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE  26
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
```

WEEK (HRDOW7) *

SOURCE ID = L0000007 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00						

22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000008 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR				

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01

```
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                       ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                      ***        09:53:15

                                  PAGE  28
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000009     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
```

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000010 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000011 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

↑ *** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** *** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000012 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01

```
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000013 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000014 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01

14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000015 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - -

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000016 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01						

14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000017 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                       ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                      ***        09:53:15

                                PAGE  37
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000018     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
```

- - - -

14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000019 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
♠ *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE  39
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000020     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
```

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↟ *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                         ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE  40
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *
```

```
 SOURCE ID = L0000021     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***       09:53:15

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000022     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
```

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                       ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                      ***        09:53:15

                                  PAGE  42
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000023     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
```

```
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***       09:53:15

                                   PAGE  43
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000024 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000025 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00

```
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE  45
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000026     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
```

22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000027 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00

6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000028 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00

22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .4200E+01
9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01
14 .4200E+01   15 .4200E+01   16 .4200E+01
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .4200E+01
9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01
14 .4200E+01   15 .4200E+01   16 .4200E+01
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

*** AERMOD - VERSION 19191 ***   *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 ***   ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000029   ; SOURCE TYPE = VOLUME   :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000030   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
                                                    DAY OF WEEK = MONDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15 .4200E+01   16 .4200E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                    DAY OF WEEK = TUESDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15 .4200E+01   16 .4200E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                    DAY OF WEEK = WEDNESDY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15 .4200E+01   16 .4200E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                    DAY OF WEEK = THURSDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15 .4200E+01   16 .4200E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                    DAY OF WEEK = FRIDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15 .4200E+01   16 .4200E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00

22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000031 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

- - - -

```
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↟ *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***       09:53:15

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000032     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
```

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00

22 .0000E+00 23 .0000E+00 24 .0000E+00
↟ *** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000033 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - -

```
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                       ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                      ***        09:53:15

                                  PAGE  53
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000034     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
```

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01								
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01								
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01								
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000035 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

HOUR SCALAR HOUR SCALAR HOUR SCALAR

- - - -

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00
*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000036 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - -

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000037 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - -

14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

```
 SOURCE ID = L0000038     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
```

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000039 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01

```
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***       09:53:15

                                  PAGE  59
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000040     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = TUESDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000041 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00						

14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000042 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                         ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***       09:53:15

                                  PAGE  62
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000043     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
```

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000044 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                       ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                      ***        09:53:15

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000045     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
```

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE  65
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000046     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
```

6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000047 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000048 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00

```
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***       09:53:15

                                    PAGE  68
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000049     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
```

- -

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00
*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000050 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - -

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6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                       ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                      ***        09:53:15

                                  PAGE  70
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000051     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
```

22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000052 ; SOURCE TYPE = VOLUME :

```
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                    DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
```

6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000053 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00						

22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000054 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01

```
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                       ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                      ***        09:53:15

                                PAGE  74
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
```

WEEK (HRDOW7) *

SOURCE ID = L0000055 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00						

22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000056 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01

```
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                       ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                      ***        09:53:15

                                  PAGE  76
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000057     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
```

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000058 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000059 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000060 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01

14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000061 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000062 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01

14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000063 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - -

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000064 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01						

14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000065 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE  85
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000066     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
```

- - - -

14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00
*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000067 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - -

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE  87
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000068     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
```

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***       09:53:15

                                  PAGE  88
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *
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 SOURCE ID = L0000069     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                  DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = SUNDAY
```

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00
*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000070 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - -

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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                       ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                      ***        09:53:15

                                  PAGE  90
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000071     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
```

```
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***       09:53:15

                                   PAGE  91
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000072 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000073 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00

6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000074 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00

22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000075 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00

6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000076 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00

22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000077 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000078   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
                                                    DAY OF WEEK = MONDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15 .4200E+01   16 .4200E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                    DAY OF WEEK = TUESDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15 .4200E+01   16 .4200E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                    DAY OF WEEK = WEDNESDY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15 .4200E+01   16 .4200E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                    DAY OF WEEK = THURSDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15 .4200E+01   16 .4200E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                    DAY OF WEEK = FRIDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15 .4200E+01   16 .4200E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00

22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000079 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .4200E+01
9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01
14 .4200E+01   15 .4200E+01   16 .4200E+01
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .4200E+01
9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01
14 .4200E+01   15 .4200E+01   16 .4200E+01
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000080 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00

22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000081 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01

```
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 101
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000082     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
```

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01								
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01								
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01								
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000083 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

HOUR SCALAR HOUR SCALAR HOUR SCALAR

- - - -

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00
*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000084 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - -

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000085 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - -

14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

```
 SOURCE ID = L0000086     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
```

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000087 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01

```
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                       ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                      ***        09:53:15

                                  PAGE 107
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000088     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = TUESDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
```


 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000089 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00						

14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** *** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000090 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000091 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01

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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000092 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000093   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -

                                                DAY OF WEEK = MONDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01
14 .4200E+01   15 .4200E+01   16 .4200E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = TUESDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01
14 .4200E+01   15 .4200E+01   16 .4200E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = WEDNESDY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01
14 .4200E+01   15 .4200E+01   16 .4200E+01

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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 113
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000094     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
```

6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000095 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01

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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000096     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
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```
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***       09:53:15

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000097     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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- -

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00
*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000098 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - -

6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

↟ *** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** *** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000099 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00

22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000100 ; SOURCE TYPE = VOLUME :

```
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                    DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
```

6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
*** AERMOD - VERSION 19191 ***   *** Curci Vineyard III Construction HRA
                          ***   04/16/20
 *** AERMET - VERSION 16216 ***   ***
                         ***   09:53:15

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000101   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
                                                DAY OF WEEK = MONDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01
14 .4200E+01   15 .4200E+01   16 .4200E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = TUESDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01
14 .4200E+01   15 .4200E+01   16 .4200E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01
14 .4200E+01   15 .4200E+01   16 .4200E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = THURSDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01
14 .4200E+01   15 .4200E+01   16 .4200E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00

22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000102 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01

```
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                       ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                      ***        09:53:15

                                PAGE 122
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
```

WEEK (HRDOW7) *

SOURCE ID = L0000103 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00						

22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000104 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR				

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01

```
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                       ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                      ***        09:53:15

                                  PAGE 124
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000105     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
```

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000106 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000107 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

↟ *** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** *** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000108 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01

14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000109 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000110 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01

14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000111 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - -

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000112 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01						

14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000113 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 133
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000114     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
```

- - - -

14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00
*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000115 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - -

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 135
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000116     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
```

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↑ *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                         ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                        ***       09:53:15

                                   PAGE 136
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *
```

```
 SOURCE ID = L0000117     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                       ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                      ***        09:53:15

                                  PAGE 137
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000118     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
```

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                       ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                      ***        09:53:15

                                  PAGE 138
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000119     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
```

```
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***       09:53:15

                                   PAGE 139
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000120 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000121 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00

```
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 141
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000122     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
```

22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000123 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00

```
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 143
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000124     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
```

22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = THURSDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01
14 .4200E+01   15 .4200E+01   16 .4200E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = FRIDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01
14 .4200E+01   15 .4200E+01   16 .4200E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000125   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -

DAY OF WEEK = MONDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .4200E+01

```
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000126   ; SOURCE TYPE = VOLUME   :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00						

22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000127 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .4200E+01
9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01
14 .4200E+01   15 .4200E+01   16 .4200E+01
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .4200E+01
9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01
14 .4200E+01   15 .4200E+01   16 .4200E+01
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .4200E+01

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    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                       ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                      ***        09:53:15

                                  PAGE 147
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000128     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
```

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00

22 .0000E+00 23 .0000E+00 24 .0000E+00
*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000129 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01

```
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 149
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000130     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
```

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000131 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

HOUR SCALAR HOUR SCALAR HOUR SCALAR

- - - -

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00
*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000132 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - -

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000133 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01

14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

```
 SOURCE ID = L0000134     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
```

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000135 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01

14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000136 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

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    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000137 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00						

14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000138 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                         ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 158
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000139     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
```

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000140 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000141   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -

                                                DAY OF WEEK = MONDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01
14 .4200E+01   15 .4200E+01   16 .4200E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = TUESDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01
14 .4200E+01   15 .4200E+01   16 .4200E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = WEDNESDY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01
14 .4200E+01   15 .4200E+01   16 .4200E+01

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                   PAGE 161
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000142     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
```

6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000143 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000144 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00

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6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***       09:53:15

                                    PAGE 164
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000145     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
```

- -

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00
*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000146 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - -

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6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↟ *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                         ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 166
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000147     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
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22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***       09:53:15

                                  PAGE 167
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000148     ; SOURCE TYPE = VOLUME   :
```

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  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                    DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
```

6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
*** AERMOD - VERSION 19191 ***   *** Curci Vineyard III Construction HRA
                         ***   04/16/20
 *** AERMET - VERSION 16216 ***   ***
                       ***   09:53:15

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000149   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
                                                DAY OF WEEK = MONDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01
14 .4200E+01   15 .4200E+01   16 .4200E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = TUESDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01
14 .4200E+01   15 .4200E+01   16 .4200E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01
14 .4200E+01   15 .4200E+01   16 .4200E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = THURSDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01
14 .4200E+01   15 .4200E+01   16 .4200E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00

22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000150 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01

```
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                       ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                      ***        09:53:15

                                PAGE 170
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
```

WEEK (HRDOW7) *

SOURCE ID = L0000151 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00						

22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000152 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR				

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01

```
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                       ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                      ***        09:53:15

                                PAGE 172
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000153     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
```

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000154   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
                                                    DAY OF WEEK = MONDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15 .4200E+01   16 .4200E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                    DAY OF WEEK = TUESDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15 .4200E+01   16 .4200E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                    DAY OF WEEK = WEDNESDY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15 .4200E+01   16 .4200E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                    DAY OF WEEK = THURSDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15 .4200E+01   16 .4200E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                    DAY OF WEEK = FRIDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15 .4200E+01   16 .4200E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                    DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000155 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000156 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01

14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000157 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000158 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01

14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000159 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - -

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000160 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01						

14 .4200E+01   15 .4200E+01   16 .4200E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000161   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -

                                                DAY OF WEEK = MONDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01
14 .4200E+01   15 .4200E+01   16 .4200E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = TUESDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01
14 .4200E+01   15 .4200E+01   16 .4200E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = WEDNESDY

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                       ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                      ***        09:53:15

                                PAGE 181
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000162     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
```

- - - -

14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000163 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 183
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000164     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *
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 SOURCE ID = L0000165     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
```

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    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***       09:53:15
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000166     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
```

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                       ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                      ***        09:53:15

                                  PAGE 186
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000167     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
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```
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***       09:53:15

                                   PAGE 187
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000168 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000169 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00

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6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↟ *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                         ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 189
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000170     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
```

22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000171 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- -

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00

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6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 191
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000172     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
```

22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000173 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000174   ; SOURCE TYPE = VOLUME   :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00						

22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000175 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

- - - -

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000176 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00

22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000177 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01

```
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 197
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000178     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
```

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01								
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01								
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01								
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000179 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

HOUR SCALAR HOUR SCALAR HOUR SCALAR

- - - -

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00
*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000180 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - -

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000181 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - -

```
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                PAGE 201
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *
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```
 SOURCE ID = L0000182     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
```

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000183 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01

```
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***       09:53:15

                                  PAGE 203
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000184     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = TUESDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000185 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00						

14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000186 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                         ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***       09:53:15

                                  PAGE 206
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000187     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000188 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000189 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01

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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 209
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000190     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
```

6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000191 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01

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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000192     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
```

```
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                       ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                      ***       09:53:15

                                  PAGE 212
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000193     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
```

- -

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00
*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000194 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - -

```
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                   PAGE 214
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000195     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
```

22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000196 ; SOURCE TYPE = VOLUME :

```
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                    DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
```

6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000197 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = MONDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00

22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000198 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01

```
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                       ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                      ***        09:53:15

                                PAGE 218
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
```

WEEK (HRDOW7) *

SOURCE ID = L0000199 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00						

22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000200 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01

```
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                       ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                      ***        09:53:15

                                  PAGE 220
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000201     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
```

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000202 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000203 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000204 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01

14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000205 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000206 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01

14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000207 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - -

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000208 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01						

14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000209 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                       ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                      ***        09:53:15

                                PAGE 229
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000210     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
```

- - - -

14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00
*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000211 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - -

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 231
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000212     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
```

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 232
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *
```

```
 SOURCE ID = L0000213     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                       ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                      ***        09:53:15

                                  PAGE 233
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000214     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
```

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000215 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00

```
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***       09:53:15

                                   PAGE 235
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000216 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***       09:53:15

                                    PAGE 236
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000217     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
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```
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 237
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000218     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
```

22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000219 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR				

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.4200E+01				
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01
14	.4200E+01	15	.4200E+01	16	.4200E+01				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.4200E+01				
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01
14	.4200E+01	15	.4200E+01	16	.4200E+01				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.4200E+01				
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01
14	.4200E+01	15	.4200E+01	16	.4200E+01				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.4200E+01				
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01
14	.4200E+01	15	.4200E+01	16	.4200E+01				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.4200E+01				
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01
14	.4200E+01	15	.4200E+01	16	.4200E+01				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00

```
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 239
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000220     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
```

22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000221 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000222   ; SOURCE TYPE = VOLUME   :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00						

22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000223 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000224 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00

22 .0000E+00 23 .0000E+00 24 .0000E+00
↟ *** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000225 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - -

```
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 245
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000226     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
```

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01								
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01								
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01								
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000227 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

HOUR SCALAR HOUR SCALAR HOUR SCALAR

- - - -

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000228 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000229 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - -

14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

```
 SOURCE ID = L0000230     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                  DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
```

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000231 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01

```
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***       09:53:15

                                  PAGE 251
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000232     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = TUESDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                    DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                    DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                    DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                    DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                    DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↟ *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***       09:53:15

                                   PAGE 252
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000233 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00						

14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000234   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -

                                                DAY OF WEEK = MONDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01
14 .4200E+01   15 .4200E+01   16 .4200E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = TUESDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01
14 .4200E+01   15 .4200E+01   16 .4200E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = WEDNESDY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01
14 .4200E+01   15 .4200E+01   16 .4200E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = THURSDAY

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    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                         ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 254
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000235     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
```

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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000236 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                       ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                      ***        09:53:15

                                  PAGE 256
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000237     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 257
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000238     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
```

6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000239 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01

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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000240     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
```

```
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***       09:53:15

                                    PAGE 260
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000241     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00
*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000242 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - -

6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000243 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00

22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000244 ; SOURCE TYPE = VOLUME :

```
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                    DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
```

6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
*** AERMOD - VERSION 19191 ***   *** Curci Vineyard III Construction HRA
                          ***   04/16/20
 *** AERMET - VERSION 16216 ***   ***
                         ***   09:53:15

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000245   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
                                                DAY OF WEEK = MONDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01
14 .4200E+01   15 .4200E+01   16 .4200E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = TUESDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01
14 .4200E+01   15 .4200E+01   16 .4200E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01
14 .4200E+01   15 .4200E+01   16 .4200E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = THURSDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01
14 .4200E+01   15 .4200E+01   16 .4200E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00

22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000246 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01

```
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                       ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                      ***        09:53:15

                                PAGE 266
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
```

WEEK (HRDOW7) *

SOURCE ID = L0000247 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00						

22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000248 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR				

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01

```
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                       ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                      ***        09:53:15

                                  PAGE 268
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000249     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
```

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000250 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000251 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000252 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

- - - -

```
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000253 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000254 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01

14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000255 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - -

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000256 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01						

14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000257 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                       ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                      ***        09:53:15

                                PAGE 277
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000258     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
```

- - - -

14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00
*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000259 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - -

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 279
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000260     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
```

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *
```

```
 SOURCE ID = L0000261     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
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    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                       ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                      ***        09:53:15

                                  PAGE 281
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000262     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                  DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
```

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000263 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00

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6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
```


 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000264 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***       09:53:15

                                    PAGE 284
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000265     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
```

```
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 285
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000266     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
```

22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000267 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00

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6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 287
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000268     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
```

22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .4200E+01
9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01
14 .4200E+01   15 .4200E+01   16 .4200E+01
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .4200E+01
9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01
14 .4200E+01   15 .4200E+01   16 .4200E+01
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

*** AERMOD - VERSION 19191 ***   *** Curci Vineyard III Construction HRA
***   04/16/20
*** AERMET - VERSION 16216 ***   ***
***   09:53:15

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000269   ; SOURCE TYPE = VOLUME   :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000270   ; SOURCE TYPE = VOLUME   :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00						

22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000271   ; SOURCE TYPE = VOLUME   :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .4200E+01
9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01
14 .4200E+01   15 .4200E+01   16 .4200E+01
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .4200E+01
9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01
14 .4200E+01   15 .4200E+01   16 .4200E+01
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .4200E+01

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    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↟ *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***       09:53:15

                                   PAGE 291
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000272     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
```

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00

22 .0000E+00 23 .0000E+00 24 .0000E+00
↟ *** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000273 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - -

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000274 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000275 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

HOUR SCALAR HOUR SCALAR HOUR SCALAR

- - - -

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000276 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000277 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - -

14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

```
 SOURCE ID = L0000278     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
```

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000279 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01

14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000280 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000281 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00						

14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** *** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000282 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - -

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                         ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***       09:53:15

                                  PAGE 302
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000283     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
```

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000284 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000285 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                   PAGE 305
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000286     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
```

6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000287 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000288 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00

```
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                       ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                      ***       09:53:15

                                  PAGE 308
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000289     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
```

- -

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00
*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000290 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - -

6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000291 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00

22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000292 ; SOURCE TYPE = VOLUME :

```
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                    DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
```

6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
*** AERMOD - VERSION 19191 ***   *** Curci Vineyard III Construction HRA
                          ***   04/16/20
 *** AERMET - VERSION 16216 ***   ***
                         ***   09:53:15

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000293   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
                                                DAY OF WEEK = MONDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01
14 .4200E+01   15 .4200E+01   16 .4200E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = TUESDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01
14 .4200E+01   15 .4200E+01   16 .4200E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01
14 .4200E+01   15 .4200E+01   16 .4200E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = THURSDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01
14 .4200E+01   15 .4200E+01   16 .4200E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00

22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000294 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF

WEEK (HRDOW7) *

SOURCE ID = L0000295 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00						

22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000296 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR				

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01

```
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                       ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                      ***        09:53:15

                                  PAGE 316
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000297     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
```

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000298   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
                                                    DAY OF WEEK = MONDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15 .4200E+01   16 .4200E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                    DAY OF WEEK = TUESDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15 .4200E+01   16 .4200E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                    DAY OF WEEK = WEDNESDY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15 .4200E+01   16 .4200E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                    DAY OF WEEK = THURSDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15 .4200E+01   16 .4200E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                    DAY OF WEEK = FRIDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15 .4200E+01   16 .4200E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                    DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000299 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000300 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01

14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000301 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000302 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01

14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000303 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - -

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000304 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01						

14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000305 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                       ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                      ***        09:53:15

                                PAGE 325
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000306     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
```

- - - -

14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000307 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - -

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 327
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000308     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *
```

```
 SOURCE ID = L0000309     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                  DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = SUNDAY
```

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000310 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01

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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                       ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                      ***        09:53:15

                                  PAGE 330
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000311     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
```

```
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***       09:53:15

                                   PAGE 331
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000312 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000313 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00

```
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 333
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000314     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
```

22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000315 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR				

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.4200E+01				
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01
14	.4200E+01	15	.4200E+01	16	.4200E+01				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.4200E+01				
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01
14	.4200E+01	15	.4200E+01	16	.4200E+01				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.4200E+01				
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01
14	.4200E+01	15	.4200E+01	16	.4200E+01				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.4200E+01				
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01
14	.4200E+01	15	.4200E+01	16	.4200E+01				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.4200E+01				
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01
14	.4200E+01	15	.4200E+01	16	.4200E+01				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00

```
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 335
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000316     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
```

22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000317 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000318   ; SOURCE TYPE = VOLUME   :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00						

22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000319 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01

```
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                         ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***       09:53:15

                                  PAGE 339
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000320     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
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DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00

22 .0000E+00 23 .0000E+00 24 .0000E+00
↟ *** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000321 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - -

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    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 341
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000322     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
```

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01								
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01								
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01								
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000323 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

HOUR SCALAR HOUR SCALAR HOUR SCALAR

- - - -

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000324 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = MONDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000325 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - -

14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

```
 SOURCE ID = L0000326     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                  DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
```

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000327 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01

14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000328 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
```


 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000329 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00						

14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000330 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                         ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***       09:53:15

                                  PAGE 350
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000331     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
```

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000332 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                   PAGE 352
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000333     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
```

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                   PAGE 353
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000334     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
```

6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000335 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01

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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000336     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
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```
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***       09:53:15

                                  PAGE 356
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000337     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00
*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000338 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = MONDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00

6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000339 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00

22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000340 ; SOURCE TYPE = VOLUME :

```
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                    DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
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6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
*** AERMOD - VERSION 19191 ***   *** Curci Vineyard III Construction HRA
                          ***   04/16/20
 *** AERMET - VERSION 16216 ***   ***
                         ***   09:53:15

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000341   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
                                                DAY OF WEEK = MONDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01
14 .4200E+01   15 .4200E+01   16 .4200E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = TUESDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01
14 .4200E+01   15 .4200E+01   16 .4200E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01
14 .4200E+01   15 .4200E+01   16 .4200E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = THURSDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01
14 .4200E+01   15 .4200E+01   16 .4200E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00

22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000342 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01

```
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                       ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                      ***        09:53:15

                                PAGE 362
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
```

WEEK (HRDOW7) *

SOURCE ID = L0000343 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00						

22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000344 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR				

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01

9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01

```
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                       ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                      ***        09:53:15

                                  PAGE 364
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = L0000345     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13  .4200E+01
14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
```

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = L0000346   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
                                                    DAY OF WEEK = MONDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15 .4200E+01   16 .4200E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                    DAY OF WEEK = TUESDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15 .4200E+01   16 .4200E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                    DAY OF WEEK = WEDNESDY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15 .4200E+01   16 .4200E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                    DAY OF WEEK = THURSDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15 .4200E+01   16 .4200E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                    DAY OF WEEK = FRIDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
    9 .4200E+01   10 .4200E+01   11 .4200E+01   12 .0000E+00   13 .4200E+01   14 .4200E+01   15 .4200E+01   16 .4200E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                    DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000347 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000348 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01

14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = L0000349 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = GEN1 ; SOURCE TYPE = POINT :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01

14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = GEN2 ; SOURCE TYPE = POINT :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - -

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = GEN3 ; SOURCE TYPE = POINT :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01						

14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = GEN4 ; SOURCE TYPE = POINT :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR				

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .4200E+01
9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13 .4200E+01
14 .4200E+01 15 .4200E+01 16 .4200E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(481950.0, 3715450.0, 397.3, 397.3, 0.0); (482050.0, 3715450.0, 394.3, 399.1, 0.0);

```
     ( 482150.0, 3715450.0,     382.7,     399.1,       0.0);         ( 482250.0,
3715450.0,     390.3,     390.3,       0.0);
     ( 482350.0, 3715450.0,     392.0,     392.0,       0.0);         ( 482450.0,
3715450.0,     380.1,     392.1,       0.0);
     ( 482550.0, 3715450.0,     375.9,     375.9,       0.0);         ( 482650.0,
3715450.0,     376.2,     376.9,       0.0);
     ( 482750.0, 3715450.0,     379.9,     386.8,       0.0);         ( 482850.0,
3715450.0,     386.0,     387.5,       0.0);
     ( 482950.0, 3715450.0,     385.4,     385.4,       0.0);         ( 483050.0,
3715450.0,     390.0,     390.0,       0.0);
     ( 483150.0, 3715450.0,     391.0,     391.0,       0.0);         ( 483250.0,
3715450.0,     388.6,     388.6,       0.0);
     ( 483350.0, 3715450.0,     387.9,     387.9,       0.0);         ( 483450.0,
3715450.0,     385.8,     385.8,       0.0);
     ( 483550.0, 3715450.0,     385.7,     385.7,       0.0);         ( 483650.0,
3715450.0,     378.9,     504.8,       0.0);
     ( 483750.0, 3715450.0,     383.9,     504.8,       0.0);         ( 483850.0,
3715450.0,     389.3,     504.8,       0.0);
     ( 483950.0, 3715450.0,     391.4,     504.8,       0.0);         ( 484050.0,
3715450.0,     391.2,     504.8,       0.0);
     ( 484150.0, 3715450.0,     388.0,     504.8,       0.0);         ( 484250.0,
3715450.0,     390.7,     504.8,       0.0);
     ( 484350.0, 3715450.0,     400.8,     504.8,       0.0);         ( 484450.0,
3715450.0,     408.4,     504.8,       0.0);
     ( 481950.0, 3715550.0,     397.0,     397.0,       0.0);         ( 482050.0,
3715550.0,     397.3,     397.3,       0.0);
     ( 482150.0, 3715550.0,     387.2,     490.5,       0.0);         ( 482250.0,
3715550.0,     391.2,     391.2,       0.0);
     ( 482350.0, 3715550.0,     383.1,     490.5,       0.0);         ( 482550.0,
3715550.0,     379.8,     490.5,       0.0);
     ( 482650.0, 3715550.0,     379.6,     379.6,       0.0);         ( 482750.0,
3715550.0,     377.9,     391.2,       0.0);
     ( 482850.0, 3715550.0,     378.4,     394.1,       0.0);         ( 482950.0,
3715550.0,     384.7,     384.7,       0.0);
     ( 483050.0, 3715550.0,     391.4,     391.4,       0.0);         ( 483150.0,
3715550.0,     393.3,     393.3,       0.0);
     ( 483250.0, 3715550.0,     392.9,     392.9,       0.0);         ( 483350.0,
3715550.0,     389.8,     389.8,       0.0);
     ( 483450.0, 3715550.0,     386.6,     386.6,       0.0);         ( 483550.0,
3715550.0,     386.1,     387.3,       0.0);
     ( 483650.0, 3715550.0,     384.7,     504.8,       0.0);         ( 483750.0,
3715550.0,     383.2,     504.8,       0.0);
     ( 483850.0, 3715550.0,     392.9,     504.8,       0.0);         ( 483950.0,
3715550.0,     395.3,     504.8,       0.0);
     ( 484050.0, 3715550.0,     397.5,     504.8,       0.0);         ( 484250.0,
3715550.0,     396.6,     504.8,       0.0);
     ( 484350.0, 3715550.0,     395.2,     504.8,       0.0);         ( 484450.0,
3715550.0,     401.8,     504.8,       0.0);
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(484550.0, 3715550.0, 415.0, 504.8, 0.0); (484950.0,
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(485050.0, 3715550.0, 492.5, 493.0, 0.0); (481950.0,
3715650.0, 398.7, 398.7, 0.0);
(482050.0, 3715650.0, 397.9, 397.9, 0.0); (482150.0,
3715650.0, 397.9, 397.9, 0.0);
(482250.0, 3715650.0, 391.1, 490.5, 0.0); (482350.0,
3715650.0, 383.2, 490.5, 0.0);
(482450.0, 3715650.0, 384.6, 490.5, 0.0); (482650.0,
3715650.0, 382.9, 490.5, 0.0);
(482750.0, 3715650.0, 386.9, 386.9, 0.0); (482850.0,
3715650.0, 384.0, 398.4, 0.0);
(482950.0, 3715650.0, 378.1, 398.6, 0.0); (483050.0,
3715650.0, 384.9, 399.2, 0.0);
(483150.0, 3715650.0, 393.1, 397.2, 0.0); (483250.0,
3715650.0, 397.0, 397.0, 0.0);
(483350.0, 3715650.0, 395.8, 395.8, 0.0); (483450.0,
3715650.0, 391.2, 391.2, 0.0);
(483550.0, 3715650.0, 391.4, 391.4, 0.0); (483650.0,
3715650.0, 383.3, 527.8, 0.0);
(483750.0, 3715650.0, 391.7, 504.8, 0.0); (483850.0,
3715650.0, 384.4, 527.8, 0.0);
(483950.0, 3715650.0, 397.6, 504.8, 0.0); (484050.0,
3715650.0, 390.6, 504.8, 0.0);
(484150.0, 3715650.0, 390.6, 504.8, 0.0); (484350.0,
3715650.0, 405.1, 504.8, 0.0);
(484450.0, 3715650.0, 399.6, 545.4, 0.0); (484550.0,
3715650.0, 409.7, 545.4, 0.0);
(484650.0, 3715650.0, 417.7, 545.4, 0.0); (484750.0,
3715650.0, 429.6, 545.4, 0.0);
(484950.0, 3715650.0, 459.3, 504.8, 0.0); (485050.0,
3715650.0, 463.8, 504.8, 0.0);
(481950.0, 3715750.0, 398.5, 490.5, 0.0); (482050.0,
3715750.0, 398.7, 490.5, 0.0);
(482150.0, 3715750.0, 392.1, 490.5, 0.0); (482250.0,
3715750.0, 386.9, 490.5, 0.0);
(482350.0, 3715750.0, 389.7, 490.5, 0.0); (482450.0,
3715750.0, 389.8, 490.5, 0.0);
(482550.0, 3715750.0, 394.1, 490.5, 0.0); (482750.0,
3715750.0, 384.2, 490.5, 0.0);
*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** *** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

PAGE 374
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(482850.0, 3715750.0, 397.4, 397.4, 0.0); (482950.0, 3715750.0, 387.4, 398.4, 0.0);
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(483250.0, 3715750.0, 397.6, 401.8, 0.0); (483350.0, 3715750.0, 399.2, 399.2, 0.0);
(483450.0, 3715750.0, 392.0, 398.1, 0.0); (483550.0, 3715750.0, 395.0, 397.1, 0.0);
(483650.0, 3715750.0, 388.7, 527.8, 0.0); (483750.0, 3715750.0, 391.4, 527.8, 0.0);
(483850.0, 3715750.0, 390.9, 527.8, 0.0); (483950.0, 3715750.0, 394.3, 527.8, 0.0);
(484050.0, 3715750.0, 399.7, 527.8, 0.0); (484150.0, 3715750.0, 394.5, 527.8, 0.0);
(484250.0, 3715750.0, 389.8, 545.4, 0.0); (484550.0, 3715750.0, 403.0, 545.4, 0.0);
(484650.0, 3715750.0, 409.0, 545.4, 0.0); (484750.0, 3715750.0, 417.0, 545.4, 0.0);
(484850.0, 3715750.0, 420.9, 545.4, 0.0); (484950.0, 3715750.0, 427.6, 545.4, 0.0);
(485050.0, 3715750.0, 432.9, 545.4, 0.0); (481950.0, 3715850.0, 401.4, 490.5, 0.0);
(482050.0, 3715850.0, 402.7, 490.5, 0.0); (482150.0, 3715850.0, 392.2, 490.5, 0.0);
(482250.0, 3715850.0, 397.6, 490.5, 0.0); (482350.0, 3715850.0, 394.3, 490.5, 0.0);
(482450.0, 3715850.0, 397.0, 490.5, 0.0); (482550.0, 3715850.0, 394.9, 490.5, 0.0);
(482650.0, 3715850.0, 395.9, 490.5, 0.0); (482750.0, 3715850.0, 397.8, 490.5, 0.0);
(482850.0, 3715850.0, 397.3, 398.1, 0.0); (482950.0, 3715850.0, 395.8, 403.1, 0.0);
(483050.0, 3715850.0, 391.2, 405.6, 0.0); (483150.0, 3715850.0, 400.5, 404.3, 0.0);
(483350.0, 3715850.0, 400.8, 400.8, 0.0); (483450.0, 3715850.0, 397.2, 527.8, 0.0);
(483550.0, 3715850.0, 397.0, 527.8, 0.0); (483650.0, 3715850.0, 393.7, 527.8, 0.0);
(483750.0, 3715850.0, 400.9, 527.8, 0.0); (483850.0, 3715850.0, 399.3, 527.8, 0.0);
(483950.0, 3715850.0, 395.0, 527.8, 0.0); (484050.0, 3715850.0, 403.5, 527.8, 0.0);
(484150.0, 3715850.0, 399.4, 527.8, 0.0); (484250.0, 3715850.0, 394.9, 527.8, 0.0);

(484550.0, 3715850.0, 409.4, 545.4, 0.0); (484650.0, 3715850.0, 408.8, 545.4, 0.0);
(484750.0, 3715850.0, 412.5, 545.4, 0.0); (484850.0, 3715850.0, 416.4, 545.4, 0.0);
(485150.0, 3715850.0, 432.3, 545.4, 0.0); (485250.0, 3715850.0, 452.1, 545.4, 0.0);
(481950.0, 3715950.0, 403.1, 490.5, 0.0); (482050.0, 3715950.0, 397.0, 490.5, 0.0);
(482150.0, 3715950.0, 398.4, 490.5, 0.0); (482250.0, 3715950.0, 403.1, 490.5, 0.0);
(482350.0, 3715950.0, 401.1, 490.5, 0.0); (482450.0, 3715950.0, 398.5, 490.5, 0.0);
(482550.0, 3715950.0, 400.8, 490.5, 0.0); (482650.0, 3715950.0, 397.2, 490.5, 0.0);
(482750.0, 3715950.0, 394.7, 490.5, 0.0); (482850.0, 3715950.0, 397.1, 490.5, 0.0);
(482950.0, 3715950.0, 403.2, 403.2, 0.0); (483050.0, 3715950.0, 403.7, 405.6, 0.0);
(483350.0, 3715950.0, 403.3, 527.7, 0.0); (483450.0, 3715950.0, 404.6, 527.8, 0.0);
(483550.0, 3715950.0, 398.5, 527.8, 0.0); (483650.0, 3715950.0, 397.2, 527.8, 0.0);
(483750.0, 3715950.0, 395.9, 527.8, 0.0); (483850.0, 3715950.0, 405.6, 527.8, 0.0);
(483950.0, 3715950.0, 395.7, 527.8, 0.0); (484050.0, 3715950.0, 403.8, 527.8, 0.0);
(484150.0, 3715950.0, 406.5, 527.8, 0.0); (484250.0, 3715950.0, 401.6, 527.8, 0.0);
(484850.0, 3715950.0, 416.2, 545.4, 0.0); (485150.0, 3715950.0, 433.4, 545.4, 0.0);
(485250.0, 3715950.0, 461.1, 545.4, 0.0); (481950.0, 3716050.0, 404.9, 490.5, 0.0);
(482050.0, 3716050.0, 401.6, 490.5, 0.0); (482150.0, 3716050.0, 402.9, 490.5, 0.0);
(482250.0, 3716050.0, 405.0, 490.5, 0.0); (482350.0, 3716050.0, 403.4, 490.5, 0.0);
(482450.0, 3716050.0, 402.7, 490.5, 0.0); (482550.0, 3716050.0, 404.1, 490.5, 0.0);
(482650.0, 3716050.0, 403.1, 490.5, 0.0); (482750.0, 3716050.0, 397.6, 490.5, 0.0);
(482850.0, 3716050.0, 403.5, 490.5, 0.0); (482950.0, 3716050.0, 402.7, 471.0, 0.0);
(483050.0, 3716050.0, 403.7, 454.3, 0.0); (483150.0, 3716050.0, 400.8, 522.3, 0.0);
(483350.0, 3716050.0, 404.9, 527.8, 0.0); (483450.0, 3716050.0, 407.1, 527.8, 0.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(483550.0, 3716050.0, 403.7, 527.8, 0.0); (483650.0, 3716050.0, 397.7, 527.8, 0.0);
(483750.0, 3716050.0, 404.4, 527.8, 0.0); (483850.0, 3716050.0, 406.9, 527.8, 0.0);
(483950.0, 3716050.0, 404.6, 527.8, 0.0); (484050.0, 3716050.0, 402.8, 527.8, 0.0);
(484150.0, 3716050.0, 410.5, 527.8, 0.0); (484250.0, 3716050.0, 404.8, 527.8, 0.0);
(484450.0, 3716050.0, 401.8, 545.4, 0.0); (484750.0, 3716050.0, 414.0, 545.4, 0.0);
(484850.0, 3716050.0, 416.5, 545.4, 0.0); (485050.0, 3716050.0, 424.4, 545.4, 0.0);
(485150.0, 3716050.0, 432.5, 545.4, 0.0); (485250.0, 3716050.0, 452.8, 545.4, 0.0);
(485350.0, 3716050.0, 444.7, 545.4, 0.0); (485450.0, 3716050.0, 459.7, 545.4, 0.0);
(481950.0, 3716150.0, 408.1, 587.5, 0.0); (482050.0, 3716150.0, 408.1, 587.5, 0.0);
(482150.0, 3716150.0, 407.4, 587.5, 0.0); (482250.0, 3716150.0, 408.0, 490.5, 0.0);
(482350.0, 3716150.0, 408.9, 490.5, 0.0); (482450.0, 3716150.0, 406.9, 490.5, 0.0);
(482550.0, 3716150.0, 405.6, 490.5, 0.0); (482650.0, 3716150.0, 406.3, 490.5, 0.0);
(482750.0, 3716150.0, 404.9, 490.5, 0.0); (482850.0, 3716150.0, 403.0, 490.5, 0.0);
(482950.0, 3716150.0, 406.7, 471.0, 0.0); (483050.0, 3716150.0, 408.0, 522.3, 0.0);
(483150.0, 3716150.0, 403.9, 527.8, 0.0); (483450.0, 3716150.0, 409.6, 527.8, 0.0);
(483550.0, 3716150.0, 408.2, 527.8, 0.0); (483650.0, 3716150.0, 402.7, 527.8, 0.0);
(483750.0, 3716150.0, 407.7, 527.8, 0.0); (483850.0, 3716150.0, 408.7, 527.8, 0.0);
(483950.0, 3716150.0, 410.1, 527.8, 0.0); (484150.0, 3716150.0, 412.5, 527.8, 0.0);
(484250.0, 3716150.0, 409.6, 527.8, 0.0); (484350.0, 3716150.0, 411.5, 527.8, 0.0);

(484450.0, 3716150.0, 408.9, 545.4, 0.0); (484850.0, 3716150.0, 417.7, 545.4, 0.0);
(484950.0, 3716150.0, 420.3, 545.4, 0.0); (485150.0, 3716150.0, 428.5, 545.4, 0.0);
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(485450.0, 3716150.0, 448.5, 545.4, 0.0); (481950.0, 3716250.0, 410.2, 660.0, 0.0);
(482050.0, 3716250.0, 413.7, 587.5, 0.0); (482150.0, 3716250.0, 414.6, 587.5, 0.0);
(482250.0, 3716250.0, 413.1, 587.5, 0.0); (482350.0, 3716250.0, 411.2, 587.5, 0.0);
(482450.0, 3716250.0, 410.7, 587.5, 0.0); (482550.0, 3716250.0, 410.0, 587.5, 0.0);
(482650.0, 3716250.0, 409.2, 490.5, 0.0); (482750.0, 3716250.0, 408.8, 490.5, 0.0);
(482850.0, 3716250.0, 410.1, 490.5, 0.0); (482950.0, 3716250.0, 410.3, 483.6, 0.0);
(483050.0, 3716250.0, 409.2, 522.3, 0.0); (483150.0, 3716250.0, 409.2, 527.8, 0.0);
(483450.0, 3716250.0, 409.6, 527.8, 0.0); (483550.0, 3716250.0, 410.7, 527.8, 0.0);
(483650.0, 3716250.0, 409.0, 527.8, 0.0); (483750.0, 3716250.0, 410.1, 527.8, 0.0);
(483850.0, 3716250.0, 410.9, 527.8, 0.0); (483950.0, 3716250.0, 410.0, 527.8, 0.0);
(484150.0, 3716250.0, 424.7, 527.8, 0.0); (484850.0, 3716250.0, 424.6, 545.4, 0.0);
(484950.0, 3716250.0, 429.0, 545.4, 0.0); (485050.0, 3716250.0, 422.3, 545.4, 0.0);
(485150.0, 3716250.0, 426.1, 545.4, 0.0); (485250.0, 3716250.0, 432.2, 545.4, 0.0);
(485350.0, 3716250.0, 440.2, 545.4, 0.0); (481950.0, 3716350.0, 416.1, 660.0, 0.0);
(482050.0, 3716350.0, 420.2, 660.0, 0.0); (482150.0, 3716350.0, 420.8, 587.5, 0.0);
(482250.0, 3716350.0, 425.5, 587.5, 0.0); (482350.0, 3716350.0, 419.1, 587.5, 0.0);
(482450.0, 3716350.0, 415.6, 587.5, 0.0); (482550.0, 3716350.0, 414.5, 587.5, 0.0);
(482650.0, 3716350.0, 414.2, 587.5, 0.0); (482750.0, 3716350.0, 414.4, 490.5, 0.0);
(482850.0, 3716350.0, 412.6, 490.5, 0.0); (482950.0, 3716350.0, 414.3, 522.3, 0.0);
(483050.0, 3716350.0, 414.0, 522.3, 0.0); (483150.0, 3716350.0, 413.7, 527.8, 0.0);
(483450.0, 3716350.0, 413.2, 527.8, 0.0); (483550.0, 3716350.0, 413.6, 527.8, 0.0);

(483650.0, 3716350.0, 412.3, 527.8, 0.0); (483750.0, 3716350.0, 413.8, 527.8, 0.0);
(483850.0, 3716350.0, 414.7, 527.8, 0.0); (483950.0, 3716350.0, 413.9, 527.8, 0.0);

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(484850.0, 3716350.0, 424.2, 545.4, 0.0); (484950.0, 3716350.0, 436.5, 545.4, 0.0);
(481950.0, 3716450.0, 425.1, 660.0, 0.0); (482550.0, 3716450.0, 422.0, 587.5, 0.0);
(482650.0, 3716450.0, 420.7, 587.5, 0.0); (482750.0, 3716450.0, 419.5, 587.5, 0.0);
(482850.0, 3716450.0, 414.3, 587.5, 0.0); (482950.0, 3716450.0, 419.8, 522.3, 0.0);
(483050.0, 3716450.0, 422.3, 522.3, 0.0); (483150.0, 3716450.0, 420.2, 527.8, 0.0);
(483450.0, 3716450.0, 418.7, 527.8, 0.0); (483550.0, 3716450.0, 418.0, 527.8, 0.0);
(483650.0, 3716450.0, 416.1, 527.8, 0.0); (483750.0, 3716450.0, 415.3, 527.8, 0.0);
(483850.0, 3716450.0, 417.6, 527.8, 0.0); (483950.0, 3716450.0, 417.4, 527.8, 0.0);
(484050.0, 3716450.0, 417.6, 527.8, 0.0); (485150.0, 3716450.0, 439.9, 545.4, 0.0);
(482650.0, 3716550.0, 433.4, 587.5, 0.0); (482750.0, 3716550.0, 427.4, 587.5, 0.0);
(482850.0, 3716550.0, 420.7, 587.5, 0.0); (482950.0, 3716550.0, 430.8, 483.6, 0.0);
(483450.0, 3716550.0, 422.8, 527.8, 0.0); (483550.0, 3716550.0, 424.4, 527.8, 0.0);
(483650.0, 3716550.0, 420.6, 527.8, 0.0); (483750.0, 3716550.0, 422.9, 527.8, 0.0);
(483850.0, 3716550.0, 422.7, 527.8, 0.0); (483950.0, 3716550.0, 423.4, 527.8, 0.0);
(484050.0, 3716550.0, 422.8, 527.8, 0.0); (484950.0, 3716550.0, 422.9, 545.4, 0.0);
(485050.0, 3716550.0, 441.9, 545.4, 0.0); (485150.0, 3716550.0, 457.2, 545.4, 0.0);

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     ( 482850.0, 3716650.0,     427.0,     587.5,       0.0);         ( 482950.0,
3716650.0,     432.6,     522.3,       0.0);
     ( 483450.0, 3716650.0,     421.2,     527.8,       0.0);         ( 483550.0,
3716650.0,     425.9,     527.8,       0.0);
     ( 483650.0, 3716650.0,     428.5,     527.8,       0.0);         ( 483750.0,
3716650.0,     431.7,     527.8,       0.0);
     ( 483850.0, 3716650.0,     427.3,     527.8,       0.0);         ( 483950.0,
3716650.0,     429.4,     527.8,       0.0);
     ( 484050.0, 3716650.0,     429.1,     527.8,       0.0);         ( 485250.0,
3716650.0,     438.7,     545.4,       0.0);
     ( 481950.0, 3716750.0,     422.9,     660.0,       0.0);         ( 482650.0,
3716750.0,     451.6,     587.5,       0.0);
     ( 482750.0, 3716750.0,     449.1,     483.6,       0.0);         ( 482850.0,
3716750.0,     434.1,     587.5,       0.0);
     ( 482950.0, 3716750.0,     440.5,     490.5,       0.0);         ( 483050.0,
3716750.0,     439.1,     522.3,       0.0);
     ( 483150.0, 3716750.0,     444.9,     522.3,       0.0);         ( 483450.0,
3716750.0,     426.8,     527.8,       0.0);
     ( 483550.0, 3716750.0,     432.1,     527.8,       0.0);         ( 483650.0,
3716750.0,     445.2,     527.8,       0.0);
     ( 483750.0, 3716750.0,     445.1,     527.8,       0.0);         ( 483850.0,
3716750.0,     433.6,     527.8,       0.0);
     ( 483950.0, 3716750.0,     433.5,     527.8,       0.0);         ( 484050.0,
3716750.0,     433.4,     527.8,       0.0);
     ( 485150.0, 3716750.0,     432.6,     545.4,       0.0);         ( 485250.0,
3716750.0,     435.5,     545.4,       0.0);
     ( 485350.0, 3716750.0,     441.1,     545.4,       0.0);         ( 485450.0,
3716750.0,     443.7,     545.4,       0.0);
     ( 485550.0, 3716750.0,     456.1,     545.4,       0.0);         ( 485650.0,
3716750.0,     443.6,     545.4,       0.0);
     ( 481950.0, 3716850.0,     427.5,     660.0,       0.0);         ( 482050.0,
3716850.0,     427.7,     660.0,       0.0);
     ( 482150.0, 3716850.0,     426.8,     660.0,       0.0);         ( 482650.0,
3716850.0,     459.8,     587.5,       0.0);
     ( 482750.0, 3716850.0,     453.6,     587.5,       0.0);         ( 482850.0,
3716850.0,     446.5,     587.5,       0.0);
     ( 482950.0, 3716850.0,     451.8,     483.6,       0.0);         ( 483050.0,
3716850.0,     460.1,     483.6,       0.0);
     ( 483150.0, 3716850.0,     450.6,     522.3,       0.0);         ( 483250.0,
3716850.0,     438.6,     527.8,       0.0);
     ( 484050.0, 3716850.0,     449.9,     527.8,       0.0);         ( 485550.0,
3716850.0,     451.6,     545.4,       0.0);
     ( 485650.0, 3716850.0,     442.8,     545.4,       0.0);         ( 481950.0,
3716950.0,     431.0,     660.0,       0.0);
     ( 482050.0, 3716950.0,     428.7,     660.0,       0.0);         ( 482150.0,
3716950.0,     430.7,     660.0,       0.0);
     ( 482250.0, 3716950.0,     433.1,     660.0,       0.0);         ( 482350.0,
3716950.0,     434.8,     660.0,       0.0);
```

(482450.0, 3716950.0, 437.7, 660.0, 0.0); (483150.0, 3716950.0, 453.8, 522.3, 0.0);
(483250.0, 3716950.0, 445.1, 527.8, 0.0); (485550.0, 3716950.0, 442.3, 545.4, 0.0);
(485650.0, 3716950.0, 440.4, 545.4, 0.0); (481950.0, 3717050.0, 434.6, 660.0, 0.0);
(482050.0, 3717050.0, 433.5, 660.0, 0.0); (482150.0, 3717050.0, 435.6, 660.0, 0.0);
(482250.0, 3717050.0, 438.7, 660.0, 0.0); (482350.0, 3717050.0, 438.4, 660.0, 0.0);
*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(482450.0, 3717050.0, 439.2, 660.0, 0.0); (482550.0, 3717050.0, 439.0, 660.0, 0.0);
(482650.0, 3717050.0, 440.7, 660.0, 0.0); (482850.0, 3717050.0, 447.7, 660.0, 0.0);
(482950.0, 3717050.0, 463.5, 483.6, 0.0); (483250.0, 3717050.0, 466.3, 522.3, 0.0);
(485350.0, 3717050.0, 438.8, 545.4, 0.0); (485450.0, 3717050.0, 445.9, 545.4, 0.0);
(485550.0, 3717050.0, 440.4, 545.4, 0.0); (485650.0, 3717050.0, 437.6, 545.4, 0.0);
(486250.0, 3717050.0, 531.0, 531.0, 0.0); (481950.0, 3717150.0, 433.3, 660.0, 0.0);
(482050.0, 3717150.0, 439.4, 660.0, 0.0); (482150.0, 3717150.0, 444.9, 660.0, 0.0);
(482250.0, 3717150.0, 439.7, 660.0, 0.0); (482350.0, 3717150.0, 440.6, 660.0, 0.0);
(482450.0, 3717150.0, 444.0, 660.0, 0.0); (482550.0, 3717150.0, 439.6, 660.0, 0.0);
(482650.0, 3717150.0, 444.6, 660.0, 0.0); (482750.0, 3717150.0, 446.4, 660.0, 0.0);
(482850.0, 3717150.0, 444.5, 660.0, 0.0); (482950.0, 3717150.0, 448.5, 660.0, 0.0);
(483050.0, 3717150.0, 462.4, 490.5, 0.0); (485350.0, 3717150.0, 441.2, 545.4, 0.0);
(485450.0, 3717150.0, 440.2, 545.4, 0.0); (485550.0, 3717150.0, 432.9, 545.4, 0.0);

(485650.0, 3717150.0, 431.6, 545.4, 0.0); (481950.0, 3717250.0, 439.7, 660.0, 0.0);
(482050.0, 3717250.0, 439.5, 660.0, 0.0); (482150.0, 3717250.0, 441.7, 660.0, 0.0);
(482250.0, 3717250.0, 451.3, 660.0, 0.0); (482350.0, 3717250.0, 452.9, 660.0, 0.0);
(482450.0, 3717250.0, 445.4, 660.0, 0.0); (482550.0, 3717250.0, 444.6, 660.0, 0.0);
(482650.0, 3717250.0, 446.9, 660.0, 0.0); (482750.0, 3717250.0, 451.9, 660.0, 0.0);
(482850.0, 3717250.0, 449.8, 660.0, 0.0); (482950.0, 3717250.0, 446.0, 660.0, 0.0);
(483050.0, 3717250.0, 450.6, 660.0, 0.0); (483150.0, 3717250.0, 458.8, 582.4, 0.0);
(483250.0, 3717250.0, 464.2, 582.4, 0.0); (483350.0, 3717250.0, 467.0, 522.3, 0.0);
(483450.0, 3717250.0, 458.3, 582.4, 0.0); (483850.0, 3717250.0, 453.9, 527.8, 0.0);
(483950.0, 3717250.0, 460.3, 527.8, 0.0); (486150.0, 3717250.0, 446.2, 534.1, 0.0);
(486250.0, 3717250.0, 450.1, 534.1, 0.0); (481950.0, 3717350.0, 445.0, 660.0, 0.0);
(482050.0, 3717350.0, 443.4, 660.0, 0.0); (482150.0, 3717350.0, 442.4, 660.0, 0.0);
(482250.0, 3717350.0, 447.6, 660.0, 0.0); (482350.0, 3717350.0, 450.7, 660.0, 0.0);
(482450.0, 3717350.0, 451.6, 660.0, 0.0); (482550.0, 3717350.0, 448.5, 660.0, 0.0);
(482650.0, 3717350.0, 451.7, 660.0, 0.0); (482750.0, 3717350.0, 456.1, 660.0, 0.0);
(482850.0, 3717350.0, 453.8, 660.0, 0.0); (482950.0, 3717350.0, 448.5, 660.0, 0.0);
(483050.0, 3717350.0, 450.8, 660.0, 0.0); (483150.0, 3717350.0, 453.8, 660.0, 0.0);
(483250.0, 3717350.0, 455.9, 607.1, 0.0); (483350.0, 3717350.0, 457.6, 607.1, 0.0);
(483450.0, 3717350.0, 453.5, 607.1, 0.0); (483850.0, 3717350.0, 459.4, 527.8, 0.0);
(483950.0, 3717350.0, 460.6, 527.8, 0.0); (484050.0, 3717350.0, 464.7, 527.8, 0.0);
(484650.0, 3717350.0, 460.8, 492.7, 0.0); (484750.0, 3717350.0, 458.1, 492.7, 0.0);
(486050.0, 3717350.0, 427.6, 545.4, 0.0); (486150.0, 3717350.0, 431.7, 541.7, 0.0);
(486250.0, 3717350.0, 435.0, 534.1, 0.0); (481950.0, 3717450.0, 451.7, 660.0, 0.0);
(482050.0, 3717450.0, 450.7, 660.0, 0.0); (482150.0, 3717450.0, 446.2, 660.0, 0.0);

(482250.0, 3717450.0, 452.9, 660.0, 0.0); (482350.0, 3717450.0, 450.9, 660.0, 0.0);
(482450.0, 3717450.0, 451.7, 660.0, 0.0); (482750.0, 3717450.0, 463.2, 660.0, 0.0);
(482850.0, 3717450.0, 458.7, 660.0, 0.0); (482950.0, 3717450.0, 453.0, 660.0, 0.0);
(483050.0, 3717450.0, 451.9, 660.0, 0.0); (483150.0, 3717450.0, 452.9, 660.0, 0.0);
(483250.0, 3717450.0, 455.1, 660.0, 0.0); (483350.0, 3717450.0, 456.3, 607.1, 0.0);
(483450.0, 3717450.0, 456.2, 607.1, 0.0); (483550.0, 3717450.0, 454.8, 607.1, 0.0);
(483850.0, 3717450.0, 450.9, 607.1, 0.0); (483950.0, 3717450.0, 457.5, 607.1, 0.0);
(484050.0, 3717450.0, 458.3, 527.8, 0.0); (484550.0, 3717450.0, 464.3, 464.3, 0.0);

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(484650.0, 3717450.0, 469.5, 469.5, 0.0); (484750.0, 3717450.0, 461.4, 470.7, 0.0);
(481950.0, 3717550.0, 461.2, 660.0, 0.0); (482050.0, 3717550.0, 461.7, 660.0, 0.0);
(482150.0, 3717550.0, 461.4, 660.0, 0.0); (482250.0, 3717550.0, 457.6, 660.0, 0.0);
(482350.0, 3717550.0, 458.4, 660.0, 0.0); (482450.0, 3717550.0, 458.3, 660.0, 0.0);
(482750.0, 3717550.0, 464.3, 660.0, 0.0); (482850.0, 3717550.0, 460.2, 660.0, 0.0);
(482950.0, 3717550.0, 453.8, 660.0, 0.0); (483050.0, 3717550.0, 453.8, 660.0, 0.0);
(483250.0, 3717550.0, 457.2, 660.0, 0.0); (483350.0, 3717550.0, 457.3, 646.0, 0.0);
(483450.0, 3717550.0, 464.6, 607.1, 0.0); (483550.0, 3717550.0, 459.8, 607.1, 0.0);
(483950.0, 3717550.0, 463.7, 607.1, 0.0); (484050.0, 3717550.0, 463.6, 607.1, 0.0);
(485850.0, 3717550.0, 423.0, 534.1, 0.0); (485950.0, 3717550.0, 424.2, 534.1, 0.0);

(481950.0, 3717650.0, 482.0, 660.0, 0.0); (482050.0, 3717650.0, 471.0, 660.0, 0.0);
(482150.0, 3717650.0, 470.1, 660.0, 0.0); (482250.0, 3717650.0, 464.5, 660.0, 0.0);
(482350.0, 3717650.0, 465.1, 660.0, 0.0); (482450.0, 3717650.0, 463.4, 660.0, 0.0);
(482550.0, 3717650.0, 466.2, 660.0, 0.0); (482650.0, 3717650.0, 463.3, 660.0, 0.0);
(482750.0, 3717650.0, 465.3, 660.0, 0.0); (482850.0, 3717650.0, 460.9, 660.0, 0.0);
(482950.0, 3717650.0, 458.3, 660.0, 0.0); (483350.0, 3717650.0, 460.2, 660.0, 0.0);
(484550.0, 3717650.0, 459.3, 459.3, 0.0); (484650.0, 3717650.0, 459.5, 459.5, 0.0);
(484750.0, 3717650.0, 458.8, 465.6, 0.0); (484850.0, 3717650.0, 455.6, 465.8, 0.0);
(485150.0, 3717650.0, 449.8, 449.8, 0.0); (485450.0, 3717650.0, 427.8, 532.0, 0.0);
(485550.0, 3717650.0, 429.1, 534.1, 0.0); (482250.0, 3717750.0, 470.9, 660.0, 0.0);
(482350.0, 3717750.0, 478.8, 660.0, 0.0); (482450.0, 3717750.0, 480.6, 660.0, 0.0);
(482550.0, 3717750.0, 476.6, 660.0, 0.0); (482650.0, 3717750.0, 473.8, 660.0, 0.0);
(482750.0, 3717750.0, 468.6, 660.0, 0.0); (482850.0, 3717750.0, 462.9, 660.0, 0.0);
(482950.0, 3717750.0, 463.2, 660.0, 0.0); (484550.0, 3717750.0, 459.3, 496.2, 0.0);
(484650.0, 3717750.0, 457.6, 496.2, 0.0); (484750.0, 3717750.0, 457.1, 457.1, 0.0);
(484850.0, 3717750.0, 454.4, 465.8, 0.0); (485150.0, 3717750.0, 445.8, 445.8, 0.0);
(485450.0, 3717750.0, 425.7, 532.0, 0.0); (485550.0, 3717750.0, 426.8, 532.0, 0.0);
(485650.0, 3717750.0, 428.2, 534.1, 0.0); (485750.0, 3717750.0, 424.2, 534.1, 0.0);
(485850.0, 3717750.0, 421.5, 534.1, 0.0); (485950.0, 3717750.0, 421.0, 534.1, 0.0);
(486050.0, 3717750.0, 421.4, 534.1, 0.0); (482250.0, 3717850.0, 483.0, 660.0, 0.0);
(482650.0, 3717850.0, 484.0, 660.0, 0.0); (482750.0, 3717850.0, 474.2, 660.0, 0.0);
(482850.0, 3717850.0, 466.0, 660.0, 0.0); (482950.0, 3717850.0, 470.4, 660.0, 0.0);
(483350.0, 3717850.0, 465.2, 660.0, 0.0); (483450.0, 3717850.0, 465.1, 646.9, 0.0);
(484550.0, 3717850.0, 464.0, 496.2, 0.0); (484650.0, 3717850.0, 459.5, 496.2, 0.0);

(484750.0, 3717850.0, 458.6, 458.6, 0.0); (484850.0, 3717850.0, 455.4, 455.4, 0.0);
(484950.0, 3717850.0, 451.7, 451.7, 0.0); (485150.0, 3717850.0, 443.5, 443.5, 0.0);
(485250.0, 3717850.0, 438.5, 453.7, 0.0); (485450.0, 3717850.0, 433.4, 433.4, 0.0);
(485550.0, 3717850.0, 433.1, 433.1, 0.0); (485650.0, 3717850.0, 431.4, 532.0, 0.0);
(485750.0, 3717850.0, 426.3, 532.0, 0.0); (485850.0, 3717850.0, 427.1, 532.0, 0.0);
(485950.0, 3717850.0, 429.7, 532.0, 0.0); (486050.0, 3717850.0, 426.1, 534.1, 0.0);
(481950.0, 3717950.0, 581.1, 587.5, 0.0); (482250.0, 3717950.0, 501.2, 660.0, 0.0);
(482350.0, 3717950.0, 525.7, 660.0, 0.0); (482750.0, 3717950.0, 482.7, 660.0, 0.0);
(483350.0, 3717950.0, 468.4, 660.0, 0.0); (483450.0, 3717950.0, 468.4, 646.9, 0.0);
(483550.0, 3717950.0, 470.1, 646.9, 0.0); (484550.0, 3717950.0, 462.8, 607.1, 0.0);
(484650.0, 3717950.0, 461.0, 496.2, 0.0); (484750.0, 3717950.0, 459.5, 459.5, 0.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(484850.0, 3717950.0, 457.9, 457.9, 0.0); (484950.0, 3717950.0, 454.3, 454.3, 0.0);
(485350.0, 3717950.0, 438.9, 438.9, 0.0); (485450.0, 3717950.0, 433.4, 433.4, 0.0);
(485550.0, 3717950.0, 438.1, 441.3, 0.0); (485650.0, 3717950.0, 431.1, 441.3, 0.0);
(485750.0, 3717950.0, 427.4, 532.0, 0.0); (485850.0, 3717950.0, 431.3, 532.0, 0.0);
(485950.0, 3717950.0, 434.8, 532.0, 0.0); (486050.0, 3717950.0, 433.3, 532.0, 0.0);
(481950.0, 3718050.0, 558.9, 660.0, 0.0); (482050.0, 3718050.0, 576.2, 660.0, 0.0);
(482750.0, 3718050.0, 482.1, 660.0, 0.0); (482850.0, 3718050.0, 475.7, 660.0, 0.0);

(482950.0, 3718050.0, 477.4, 660.0, 0.0); (483050.0, 3718050.0, 475.0, 660.0, 0.0);
(483150.0, 3718050.0, 475.1, 660.0, 0.0); (483250.0, 3718050.0, 475.0, 660.0, 0.0);
(483350.0, 3718050.0, 472.7, 660.0, 0.0); (483450.0, 3718050.0, 472.1, 646.9, 0.0);
(483550.0, 3718050.0, 469.8, 646.9, 0.0); (483650.0, 3718050.0, 469.1, 646.9, 0.0);
(484550.0, 3718050.0, 464.0, 607.1, 0.0); (484650.0, 3718050.0, 460.1, 607.1, 0.0);
(485450.0, 3718050.0, 440.2, 440.2, 0.0); (485550.0, 3718050.0, 436.8, 440.4, 0.0);
(485650.0, 3718050.0, 430.7, 430.7, 0.0); (485750.0, 3718050.0, 426.9, 503.5, 0.0);
(485850.0, 3718050.0, 427.5, 503.5, 0.0); (485950.0, 3718050.0, 430.1, 503.5, 0.0);
(486050.0, 3718050.0, 430.9, 532.0, 0.0); (481950.0, 3718150.0, 527.0, 660.0, 0.0);
(482050.0, 3718150.0, 546.0, 660.0, 0.0); (482150.0, 3718150.0, 558.3, 660.0, 0.0);
(482250.0, 3718150.0, 542.7, 660.0, 0.0); (482350.0, 3718150.0, 528.7, 660.0, 0.0);
(482650.0, 3718150.0, 489.9, 660.0, 0.0); (482750.0, 3718150.0, 481.8, 660.0, 0.0);
(482850.0, 3718150.0, 493.0, 660.0, 0.0); (482950.0, 3718150.0, 491.7, 660.0, 0.0);
(483050.0, 3718150.0, 487.6, 660.0, 0.0); (483150.0, 3718150.0, 481.6, 660.0, 0.0);
(483350.0, 3718150.0, 476.1, 660.0, 0.0); (483450.0, 3718150.0, 475.1, 646.9, 0.0);
(483550.0, 3718150.0, 474.6, 646.9, 0.0); (483650.0, 3718150.0, 474.3, 646.9, 0.0);
(484550.0, 3718150.0, 462.5, 607.1, 0.0); (484650.0, 3718150.0, 459.6, 607.1, 0.0);
(485250.0, 3718150.0, 441.1, 453.9, 0.0); (485550.0, 3718150.0, 434.4, 453.3, 0.0);
(485650.0, 3718150.0, 431.4, 503.5, 0.0); (485750.0, 3718150.0, 429.1, 503.5, 0.0);
(481950.0, 3718250.0, 510.2, 660.0, 0.0); (482050.0, 3718250.0, 521.9, 660.0, 0.0);
(482150.0, 3718250.0, 537.6, 660.0, 0.0); (482250.0, 3718250.0, 546.2, 660.0, 0.0);
(482350.0, 3718250.0, 522.4, 660.0, 0.0); (482450.0, 3718250.0, 506.8, 660.0, 0.0);
(482550.0, 3718250.0, 500.9, 660.0, 0.0); (482650.0, 3718250.0, 489.1, 660.0, 0.0);
(482750.0, 3718250.0, 487.3, 660.0, 0.0); (482850.0, 3718250.0, 519.5, 660.0, 0.0);

```
     ( 482950.0, 3718250.0,     525.7,     646.9,       0.0);         ( 483250.0,
3718250.0,     492.4,     660.0,       0.0);
     ( 484550.0, 3718250.0,     463.6,     607.1,       0.0);         ( 484650.0,
3718250.0,     461.0,     607.1,       0.0);
     ( 484750.0, 3718250.0,     458.9,     607.1,       0.0);         ( 484850.0,
3718250.0,     457.9,     601.0,       0.0);
     ( 485150.0, 3718250.0,     446.4,     446.4,       0.0);         ( 485250.0,
3718250.0,     443.3,     453.9,       0.0);
     ( 485650.0, 3718250.0,     436.9,     503.5,       0.0);         ( 481950.0,
3718350.0,     524.5,     660.0,       0.0);
     ( 482050.0, 3718350.0,     521.6,     660.0,       0.0);         ( 482150.0,
3718350.0,     534.7,     660.0,       0.0);
     ( 482250.0, 3718350.0,     552.5,     660.0,       0.0);         ( 482350.0,
3718350.0,     526.8,     660.0,       0.0);
     ( 482450.0, 3718350.0,     506.3,     660.0,       0.0);         ( 482550.0,
3718350.0,     501.5,     660.0,       0.0);
     ( 482650.0, 3718350.0,     496.1,     660.0,       0.0);         ( 482750.0,
3718350.0,     493.5,     660.0,       0.0);
     ( 483150.0, 3718350.0,     536.2,     607.1,       0.0);         ( 483450.0,
3718350.0,     487.6,     646.9,       0.0);
     ( 485250.0, 3718350.0,     444.2,     444.2,       0.0);         ( 485350.0,
3718350.0,     442.4,     452.6,       0.0);
     ( 485550.0, 3718350.0,     433.4,     503.5,       0.0);         ( 485650.0,
3718350.0,     445.2,     453.3,       0.0);
     ( 486150.0, 3718350.0,     426.1,     503.5,       0.0);         ( 486250.0,
3718350.0,     426.6,     503.5,       0.0);
     ( 481950.0, 3718450.0,     534.6,     660.0,       0.0);         ( 482050.0,
3718450.0,     526.0,     660.0,       0.0);
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***        09:53:15

                                    PAGE 380
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                                  *** DISCRETE CARTESIAN RECEPTORS ***
                                                 (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                              (METERS)

     ( 482150.0, 3718450.0,     539.9,     660.0,       0.0);         ( 482250.0,
3718450.0,     556.5,     660.0,       0.0);
     ( 482350.0, 3718450.0,     537.8,     660.0,       0.0);         ( 482450.0,
3718450.0,     516.5,     660.0,       0.0);
     ( 482550.0, 3718450.0,     505.7,     660.0,       0.0);         ( 482650.0,
3718450.0,     502.0,     660.0,       0.0);
     ( 482750.0, 3718450.0,     500.0,     660.0,       0.0);         ( 482850.0,
3718450.0,     513.9,     660.0,       0.0);
```

(483350.0, 3718450.0, 504.5, 646.9, 0.0); (484450.0, 3718450.0, 470.0, 607.1, 0.0);
(485150.0, 3718450.0, 451.5, 465.1, 0.0); (485250.0, 3718450.0, 444.1, 465.1, 0.0);
(485350.0, 3718450.0, 445.6, 445.6, 0.0); (485750.0, 3718450.0, 436.1, 503.5, 0.0);
(485850.0, 3718450.0, 427.8, 503.5, 0.0); (485950.0, 3718450.0, 423.4, 503.5, 0.0);
(486050.0, 3718450.0, 430.0, 503.5, 0.0); (481950.0, 3718550.0, 553.6, 660.0, 0.0);
(482050.0, 3718550.0, 544.8, 660.0, 0.0); (482150.0, 3718550.0, 537.1, 660.0, 0.0);
(482250.0, 3718550.0, 540.8, 660.0, 0.0); (482350.0, 3718550.0, 537.8, 660.0, 0.0);
(482450.0, 3718550.0, 519.8, 660.0, 0.0); (482550.0, 3718550.0, 514.2, 660.0, 0.0);
(482650.0, 3718550.0, 514.3, 660.0, 0.0); (482750.0, 3718550.0, 504.8, 660.0, 0.0);
(482850.0, 3718550.0, 511.9, 660.0, 0.0); (482950.0, 3718550.0, 526.0, 660.0, 0.0);
(483550.0, 3718550.0, 506.5, 646.9, 0.0); (484650.0, 3718550.0, 464.9, 607.1, 0.0);
(484750.0, 3718550.0, 462.5, 607.1, 0.0); (484850.0, 3718550.0, 461.1, 601.0, 0.0);
(485850.0, 3718550.0, 432.3, 503.5, 0.0); (485950.0, 3718550.0, 433.9, 503.5, 0.0);
(482050.0, 3718650.0, 567.3, 660.0, 0.0); (482150.0, 3718650.0, 549.6, 660.0, 0.0);
(482250.0, 3718650.0, 535.9, 660.0, 0.0); (482350.0, 3718650.0, 525.5, 660.0, 0.0);
(482450.0, 3718650.0, 526.5, 660.0, 0.0); (482550.0, 3718650.0, 523.8, 660.0, 0.0);
(482650.0, 3718650.0, 517.7, 660.0, 0.0); (482750.0, 3718650.0, 515.2, 660.0, 0.0);
(482850.0, 3718650.0, 512.9, 660.0, 0.0); (482950.0, 3718650.0, 513.7, 660.0, 0.0);
(485150.0, 3718650.0, 446.6, 599.2, 0.0); (485450.0, 3718650.0, 446.1, 446.1, 0.0);
(485550.0, 3718650.0, 440.3, 448.0, 0.0); (485650.0, 3718650.0, 432.3, 503.5, 0.0);
(485850.0, 3718650.0, 447.0, 503.5, 0.0); (485950.0, 3718650.0, 431.9, 503.5, 0.0);
(486050.0, 3718650.0, 441.8, 503.5, 0.0); (482050.0, 3718750.0, 574.0, 660.0, 0.0);
(482150.0, 3718750.0, 554.5, 660.0, 0.0); (482250.0, 3718750.0, 552.2, 660.0, 0.0);
(482350.0, 3718750.0, 539.3, 660.0, 0.0); (482450.0, 3718750.0, 531.5, 660.0, 0.0);

(482550.0, 3718750.0, 527.4, 660.0, 0.0); (482650.0, 3718750.0, 526.4, 660.0, 0.0);
(482750.0, 3718750.0, 520.7, 660.0, 0.0); (482850.0, 3718750.0, 517.2, 660.0, 0.0);
(482950.0, 3718750.0, 519.4, 660.0, 0.0); (483050.0, 3718750.0, 519.0, 660.0, 0.0);
(484950.0, 3718750.0, 457.8, 601.0, 0.0); (485050.0, 3718750.0, 458.6, 599.2, 0.0);
(485150.0, 3718750.0, 459.7, 465.4, 0.0); (485850.0, 3718750.0, 453.4, 503.5, 0.0);
(485950.0, 3718750.0, 443.6, 503.5, 0.0); (486050.0, 3718750.0, 440.7, 503.5, 0.0);
(482350.0, 3718850.0, 546.9, 660.0, 0.0); (482450.0, 3718850.0, 539.2, 660.0, 0.0);
(482550.0, 3718850.0, 536.6, 660.0, 0.0); (482650.0, 3718850.0, 533.7, 660.0, 0.0);
(482750.0, 3718850.0, 526.6, 660.0, 0.0); (482850.0, 3718850.0, 522.8, 660.0, 0.0);
(482950.0, 3718850.0, 525.4, 660.0, 0.0); (483050.0, 3718850.0, 524.1, 646.9, 0.0);
(483150.0, 3718850.0, 538.3, 646.9, 0.0); (484150.0, 3718850.0, 480.2, 619.0, 0.0);
(484250.0, 3718850.0, 475.0, 619.0, 0.0); (485350.0, 3718850.0, 447.5, 447.5, 0.0);
(485450.0, 3718850.0, 442.8, 452.9, 0.0); (485750.0, 3718850.0, 446.9, 503.5, 0.0);
(485850.0, 3718850.0, 446.1, 503.5, 0.0); (485950.0, 3718850.0, 452.7, 503.5, 0.0);
(486050.0, 3718850.0, 440.5, 503.5, 0.0); (482450.0, 3718950.0, 550.8, 660.0, 0.0);
(482550.0, 3718950.0, 543.3, 660.0, 0.0); (482650.0, 3718950.0, 542.5, 660.0, 0.0);
(482750.0, 3718950.0, 533.4, 660.0, 0.0); (482850.0, 3718950.0, 531.6, 660.0, 0.0);

↟ *** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(482950.0, 3718950.0, 531.4, 646.9, 0.0); (483050.0, 3718950.0, 534.0, 646.9, 0.0);

(483150.0, 3718950.0, 533.1, 646.9, 0.0); (483250.0, 3718950.0, 545.2, 646.9, 0.0);
(485750.0, 3718950.0, 465.7, 472.2, 0.0); (485850.0, 3718950.0, 457.5, 472.2, 0.0);
(485950.0, 3718950.0, 446.7, 503.5, 0.0); (486050.0, 3718950.0, 450.4, 503.5, 0.0);
(482250.0, 3719050.0, 590.7, 660.0, 0.0); (482350.0, 3719050.0, 572.1, 660.0, 0.0);
(482450.0, 3719050.0, 564.0, 660.0, 0.0); (482550.0, 3719050.0, 557.1, 660.0, 0.0);
(482650.0, 3719050.0, 546.4, 660.0, 0.0); (482850.0, 3719050.0, 541.7, 646.9, 0.0);
(482950.0, 3719050.0, 544.8, 646.9, 0.0); (483050.0, 3719050.0, 543.4, 646.9, 0.0);
(483150.0, 3719050.0, 542.6, 646.9, 0.0); (483250.0, 3719050.0, 543.0, 646.9, 0.0);
(483350.0, 3719050.0, 550.5, 646.9, 0.0); (483450.0, 3719050.0, 555.0, 607.1, 0.0);
(483550.0, 3719050.0, 557.6, 607.1, 0.0); (485250.0, 3719050.0, 445.7, 599.2, 0.0);
(485450.0, 3719050.0, 442.6, 459.4, 0.0); (485550.0, 3719050.0, 440.8, 472.2, 0.0);
(485650.0, 3719050.0, 447.5, 472.2, 0.0); (485750.0, 3719050.0, 457.3, 472.2, 0.0);
(482350.0, 3719150.0, 585.5, 646.9, 0.0); (482650.0, 3719150.0, 559.1, 646.9, 0.0);
(482850.0, 3719150.0, 551.3, 646.9, 0.0); (483050.0, 3719150.0, 552.3, 646.9, 0.0);
(483150.0, 3719150.0, 550.8, 646.9, 0.0); (483250.0, 3719150.0, 546.5, 646.9, 0.0);
(483350.0, 3719150.0, 547.5, 646.9, 0.0); (483450.0, 3719150.0, 548.7, 619.0, 0.0);
(483550.0, 3719150.0, 549.6, 607.1, 0.0); (485250.0, 3719150.0, 456.2, 456.2, 0.0);
(485550.0, 3719150.0, 445.2, 472.2, 0.0); (485650.0, 3719150.0, 450.0, 472.2, 0.0);
(485950.0, 3719150.0, 452.9, 460.4, 0.0); (484550.0, 3719250.0, 464.0, 619.0, 0.0);
(484750.0, 3719250.0, 463.2, 606.7, 0.0); (484850.0, 3719250.0, 462.7, 601.0, 0.0);
(484750.0, 3719350.0, 464.0, 601.0, 0.0); (484850.0, 3719350.0, 461.6, 601.0, 0.0);
(484950.0, 3719350.0, 458.1, 599.2, 0.0); (485050.0, 3719350.0, 456.8, 599.2, 0.0);
(485150.0, 3719350.0, 455.0, 465.7, 0.0); (484250.0, 3719450.0, 476.0, 619.0, 0.0);
(484350.0, 3719450.0, 472.9, 619.0, 0.0); (484450.0, 3719450.0, 470.2, 619.0, 0.0);

```
     ( 484550.0, 3719450.0,     467.0,     619.0,       0.0);         ( 484650.0,
3719450.0,     464.6,     619.0,       0.0);
     ( 484750.0, 3719450.0,     463.4,     601.0,       0.0);         ( 484850.0,
3719450.0,     462.3,     599.2,       0.0);
     ( 484950.0, 3719450.0,     462.9,     599.2,       0.0);         ( 485050.0,
3719450.0,     462.5,     462.5,       0.0);
     ( 485150.0, 3719450.0,     457.3,     465.7,       0.0);         ( 485250.0,
3719450.0,     457.4,     457.4,       0.0);
     ( 485350.0, 3719450.0,     458.0,     462.7,       0.0);         ( 485450.0,
3719450.0,     453.2,     458.5,       0.0);
     ( 485550.0, 3719450.0,     454.6,     454.6,       0.0);         ( 484250.0,
3719550.0,     478.8,     619.0,       0.0);
     ( 484350.0, 3719550.0,     475.0,     619.0,       0.0);         ( 484450.0,
3719550.0,     471.6,     619.0,       0.0);
     ( 484550.0, 3719550.0,     468.7,     619.0,       0.0);         ( 484650.0,
3719550.0,     468.4,     619.0,       0.0);
     ( 484750.0, 3719550.0,     464.0,     601.0,       0.0);         ( 484850.0,
3719550.0,     463.8,     599.2,       0.0);
     ( 484950.0, 3719550.0,     464.6,     599.2,       0.0);         ( 485050.0,
3719550.0,     459.7,     461.8,       0.0);
     ( 485150.0, 3719550.0,     459.3,     459.3,       0.0);         ( 485250.0,
3719550.0,     455.7,     466.0,       0.0);
     ( 485350.0, 3719550.0,     463.2,     466.0,       0.0);         ( 485450.0,
3719550.0,     459.4,     459.4,       0.0);
     ( 485550.0, 3719550.0,     457.6,     464.6,       0.0);         ( 484450.0,
3719850.0,     472.9,     619.0,       0.0);
     ( 484550.0, 3719850.0,     470.1,     619.0,       0.0);         ( 484650.0,
3719850.0,     470.2,     619.0,       0.0);
     ( 484350.0, 3719950.0,     476.0,     619.0,       0.0);         ( 484450.0,
3719950.0,     475.4,     619.0,       0.0);
     ( 484550.0, 3719950.0,     474.5,     619.0,       0.0);         ( 484650.0,
3719950.0,     470.4,     619.0,       0.0);
     ( 483837.5, 3717212.5,     460.8,     527.8,       0.0);         ( 483862.5,
3717212.5,     457.6,     527.8,       0.0);
     ( 483887.5, 3717212.5,     461.1,     527.8,       0.0);         ( 483412.5,
3717237.5,     462.5,     527.8,       0.0);
     ( 483812.5, 3717237.5,     457.1,     527.8,       0.0);         ( 483837.5,
3717237.5,     456.3,     527.8,       0.0);
     ( 483862.5, 3717237.5,     455.9,     527.8,       0.0);         ( 483887.5,
3717237.5,     458.8,     527.8,       0.0);
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***        09:53:15

                                   PAGE 382
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(483912.5, 3717237.5, 460.2, 527.8, 0.0); (483937.5, 3717237.5, 460.8, 527.8, 0.0);
(483412.5, 3717262.5, 459.9, 582.4, 0.0); (483437.5, 3717262.5, 458.4, 582.4, 0.0);
(483462.5, 3717262.5, 456.2, 582.4, 0.0); (483812.5, 3717262.5, 451.5, 527.8, 0.0);
(483837.5, 3717262.5, 452.2, 527.8, 0.0); (483862.5, 3717262.5, 453.1, 527.8, 0.0);
(483887.5, 3717262.5, 456.8, 527.8, 0.0); (483912.5, 3717262.5, 457.5, 527.8, 0.0);
(483937.5, 3717262.5, 458.1, 527.8, 0.0); (483962.5, 3717262.5, 461.5, 527.8, 0.0);
(483987.5, 3717262.5, 463.6, 527.8, 0.0); (483412.5, 3717287.5, 457.7, 582.4, 0.0);
(483437.5, 3717287.5, 456.3, 607.1, 0.0); (483462.5, 3717287.5, 454.8, 607.1, 0.0);
(483487.5, 3717287.5, 453.0, 607.1, 0.0); (483812.5, 3717287.5, 451.3, 527.8, 0.0);
(483837.5, 3717287.5, 451.6, 527.8, 0.0); (483862.5, 3717287.5, 452.6, 527.8, 0.0);
(483887.5, 3717287.5, 455.4, 527.8, 0.0); (483912.5, 3717287.5, 457.2, 527.8, 0.0);
(483937.5, 3717287.5, 458.4, 527.8, 0.0); (483962.5, 3717287.5, 460.7, 527.8, 0.0);
(483987.5, 3717287.5, 462.9, 527.8, 0.0); (484012.5, 3717287.5, 464.9, 527.8, 0.0);
(483412.5, 3717312.5, 456.8, 607.1, 0.0); (483437.5, 3717312.5, 455.2, 607.1, 0.0);
(483462.5, 3717312.5, 453.6, 607.1, 0.0); (483487.5, 3717312.5, 452.1, 607.1, 0.0);
(483512.5, 3717312.5, 450.6, 607.1, 0.0); (483787.5, 3717312.5, 453.5, 607.1, 0.0);
(483812.5, 3717312.5, 453.9, 527.8, 0.0); (483837.5, 3717312.5, 454.7, 527.8, 0.0);
(483862.5, 3717312.5, 455.7, 527.8, 0.0); (483887.5, 3717312.5, 457.1, 527.8, 0.0);
(483912.5, 3717312.5, 458.5, 527.8, 0.0); (483937.5, 3717312.5, 459.3, 527.8, 0.0);
(483962.5, 3717312.5, 461.0, 527.8, 0.0); (483987.5, 3717312.5, 462.8, 527.8, 0.0);
(484012.5, 3717312.5, 464.6, 527.8, 0.0); (484037.5, 3717312.5, 466.3, 527.8, 0.0);
(484562.5, 3717312.5, 462.9, 527.8, 0.0); (484587.5, 3717312.5, 462.6, 521.2, 0.0);

(484612.5, 3717312.5, 461.2, 521.2, 0.0); (484637.5, 3717312.5, 459.6, 521.0, 0.0);
(484662.5, 3717312.5, 457.3, 521.0, 0.0); (484687.5, 3717312.5, 455.2, 521.0, 0.0);
(484712.5, 3717312.5, 454.1, 496.2, 0.0); (484737.5, 3717312.5, 454.2, 496.2, 0.0);
(484762.5, 3717312.5, 454.0, 496.2, 0.0); (483412.5, 3717337.5, 456.3, 607.1, 0.0);
(483437.5, 3717337.5, 454.9, 607.1, 0.0); (483462.5, 3717337.5, 453.2, 607.1, 0.0);
(483487.5, 3717337.5, 452.0, 607.1, 0.0); (483512.5, 3717337.5, 450.8, 607.1, 0.0);
(483537.5, 3717337.5, 450.9, 607.1, 0.0); (483787.5, 3717337.5, 454.7, 607.1, 0.0);
(483812.5, 3717337.5, 456.5, 527.8, 0.0); (483837.5, 3717337.5, 457.6, 527.8, 0.0);
(483862.5, 3717337.5, 458.8, 527.8, 0.0); (483887.5, 3717337.5, 460.0, 527.8, 0.0);
(483912.5, 3717337.5, 461.0, 527.8, 0.0); (483937.5, 3717337.5, 460.1, 527.8, 0.0);
(483962.5, 3717337.5, 461.2, 527.8, 0.0); (483987.5, 3717337.5, 462.9, 527.8, 0.0);
(484012.5, 3717337.5, 464.1, 527.8, 0.0); (484037.5, 3717337.5, 465.1, 527.8, 0.0);
(484562.5, 3717337.5, 465.0, 521.0, 0.0); (484587.5, 3717337.5, 464.7, 464.7, 0.0);
(484612.5, 3717337.5, 463.3, 463.8, 0.0); (484637.5, 3717337.5, 461.0, 492.7, 0.0);
(484662.5, 3717337.5, 458.9, 492.7, 0.0); (484687.5, 3717337.5, 457.5, 492.7, 0.0);
(484712.5, 3717337.5, 456.5, 496.2, 0.0); (484737.5, 3717337.5, 457.1, 496.2, 0.0);
(484762.5, 3717337.5, 456.7, 496.2, 0.0); (483412.5, 3717362.5, 455.6, 607.1, 0.0);
(483437.5, 3717362.5, 453.9, 607.1, 0.0); (483462.5, 3717362.5, 453.0, 607.1, 0.0);
(483487.5, 3717362.5, 452.2, 607.1, 0.0); (483512.5, 3717362.5, 451.5, 607.1, 0.0);
(483537.5, 3717362.5, 452.2, 607.1, 0.0); (483787.5, 3717362.5, 454.4, 607.1, 0.0);
(483812.5, 3717362.5, 457.4, 607.1, 0.0); (483837.5, 3717362.5, 459.3, 527.8, 0.0);
(483862.5, 3717362.5, 461.4, 527.8, 0.0); (483887.5, 3717362.5, 463.4, 527.8, 0.0);
(483912.5, 3717362.5, 463.7, 527.8, 0.0); (483937.5, 3717362.5, 462.1, 527.8, 0.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(483962.5, 3717362.5, 460.7, 527.8, 0.0); (483987.5, 3717362.5, 462.0, 527.8, 0.0);
(484012.5, 3717362.5, 463.1, 527.8, 0.0); (484037.5, 3717362.5, 463.7, 527.8, 0.0);
(484562.5, 3717362.5, 465.7, 465.7, 0.0); (484587.5, 3717362.5, 465.5, 465.5, 0.0);
(484612.5, 3717362.5, 464.4, 464.4, 0.0); (484637.5, 3717362.5, 462.5, 462.5, 0.0);
(484662.5, 3717362.5, 460.5, 492.7, 0.0); (484687.5, 3717362.5, 458.0, 492.7, 0.0);
(484712.5, 3717362.5, 458.1, 492.7, 0.0); (484737.5, 3717362.5, 458.9, 492.7, 0.0);
(484762.5, 3717362.5, 458.6, 492.7, 0.0); (484787.5, 3717362.5, 456.8, 492.7, 0.0);
(483412.5, 3717387.5, 454.2, 607.1, 0.0); (483437.5, 3717387.5, 453.7, 607.1, 0.0);
(483462.5, 3717387.5, 453.3, 607.1, 0.0); (483487.5, 3717387.5, 452.6, 607.1, 0.0);
(483512.5, 3717387.5, 452.2, 607.1, 0.0); (483537.5, 3717387.5, 452.7, 607.1, 0.0);
(483562.5, 3717387.5, 452.8, 607.1, 0.0); (483787.5, 3717387.5, 453.2, 607.1, 0.0);
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(483862.5, 3717387.5, 461.8, 527.8, 0.0); (483887.5, 3717387.5, 464.7, 527.8, 0.0);
(483912.5, 3717387.5, 464.0, 527.8, 0.0); (483937.5, 3717387.5, 461.7, 527.8, 0.0);
(483962.5, 3717387.5, 460.2, 527.8, 0.0); (483987.5, 3717387.5, 460.8, 527.8, 0.0);
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(484587.5, 3717387.5, 466.0, 466.0, 0.0); (484612.5, 3717387.5, 465.4, 465.4, 0.0);
(484637.5, 3717387.5, 463.8, 468.6, 0.0); (484662.5, 3717387.5, 462.4, 470.4, 0.0);

(484687.5, 3717387.5, 461.0, 470.7, 0.0); (484712.5, 3717387.5, 460.6, 492.7, 0.0);
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(484787.5, 3717387.5, 457.1, 492.7, 0.0); (483412.5, 3717412.5, 454.3, 607.1, 0.0);
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(483887.5, 3717412.5, 460.4, 606.6, 0.0); (483912.5, 3717412.5, 460.6, 527.8, 0.0);
(483937.5, 3717412.5, 459.8, 527.8, 0.0); (483962.5, 3717412.5, 459.2, 527.8, 0.0);
(483987.5, 3717412.5, 459.4, 527.8, 0.0); (484012.5, 3717412.5, 459.7, 527.8, 0.0);
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(484487.5, 3717412.5, 463.3, 527.8, 0.0); (484512.5, 3717412.5, 464.3, 521.2, 0.0);
(484537.5, 3717412.5, 465.2, 465.2, 0.0); (484562.5, 3717412.5, 466.1, 466.1, 0.0);
(484587.5, 3717412.5, 466.7, 466.7, 0.0); (484612.5, 3717412.5, 466.9, 466.9, 0.0);
(484637.5, 3717412.5, 465.6, 469.1, 0.0); (484662.5, 3717412.5, 463.9, 470.7, 0.0);
(484687.5, 3717412.5, 463.7, 470.7, 0.0); (484712.5, 3717412.5, 462.8, 470.4, 0.0);
(484737.5, 3717412.5, 461.1, 470.5, 0.0); (484762.5, 3717412.5, 459.5, 492.7, 0.0);
(484787.5, 3717412.5, 457.7, 492.7, 0.0); (483412.5, 3717437.5, 455.7, 607.1, 0.0);
(483437.5, 3717437.5, 455.7, 607.1, 0.0); (483462.5, 3717437.5, 455.8, 607.1, 0.0);
(483487.5, 3717437.5, 455.5, 607.1, 0.0); (483512.5, 3717437.5, 455.0, 607.1, 0.0);
(483537.5, 3717437.5, 454.5, 607.1, 0.0); (483562.5, 3717437.5, 454.2, 607.1, 0.0);
(483587.5, 3717437.5, 453.4, 607.1, 0.0); (483837.5, 3717437.5, 450.9, 607.1, 0.0);
(483862.5, 3717437.5, 451.8, 607.1, 0.0); (483887.5, 3717437.5, 453.5, 607.1, 0.0);

(483912.5, 3717437.5, 456.7, 607.1, 0.0); (483937.5, 3717437.5, 457.6, 607.1, 0.0);
(483962.5, 3717437.5, 457.9, 607.1, 0.0); (483987.5, 3717437.5, 457.9, 607.1, 0.0);
*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(484012.5, 3717437.5, 458.0, 606.6, 0.0); (484037.5, 3717437.5, 458.5, 527.8, 0.0);
(484062.5, 3717437.5, 459.2, 527.8, 0.0); (484487.5, 3717437.5, 463.6, 527.1, 0.0);
(484512.5, 3717437.5, 464.0, 521.0, 0.0); (484537.5, 3717437.5, 464.6, 464.6, 0.0);
(484562.5, 3717437.5, 465.5, 465.5, 0.0); (484587.5, 3717437.5, 466.8, 466.8, 0.0);
(484612.5, 3717437.5, 468.4, 468.4, 0.0); (484637.5, 3717437.5, 468.5, 468.5, 0.0);
(484662.5, 3717437.5, 467.2, 470.4, 0.0); (484687.5, 3717437.5, 465.9, 470.7, 0.0);
(484712.5, 3717437.5, 463.8, 470.7, 0.0); (484737.5, 3717437.5, 461.8, 470.7, 0.0);
(484762.5, 3717437.5, 460.2, 470.7, 0.0); (483412.5, 3717462.5, 457.1, 607.1, 0.0);
(483437.5, 3717462.5, 456.9, 607.1, 0.0); (483462.5, 3717462.5, 456.7, 607.1, 0.0);
(483487.5, 3717462.5, 456.5, 607.1, 0.0); (483512.5, 3717462.5, 456.0, 607.1, 0.0);
(483537.5, 3717462.5, 455.7, 607.1, 0.0); (483562.5, 3717462.5, 454.9, 607.1, 0.0);
(483587.5, 3717462.5, 454.0, 607.1, 0.0); (483887.5, 3717462.5, 454.8, 607.1, 0.0);
(483912.5, 3717462.5, 457.1, 607.1, 0.0); (483937.5, 3717462.5, 457.6, 607.1, 0.0);
(483962.5, 3717462.5, 457.8, 607.1, 0.0); (483987.5, 3717462.5, 457.8, 607.1, 0.0);
(484012.5, 3717462.5, 458.0, 607.1, 0.0); (484037.5, 3717462.5, 458.4, 607.1, 0.0);
(484062.5, 3717462.5, 458.8, 527.8, 0.0); (484487.5, 3717462.5, 463.5, 521.2, 0.0);

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     ( 484512.5, 3717462.5,     463.9,     520.9,       0.0);         ( 484537.5,
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     ( 484562.5, 3717462.5,     464.6,     464.6,       0.0);         ( 484587.5,
3717462.5,     465.8,     469.0,       0.0);
     ( 484612.5, 3717462.5,     468.4,     468.4,       0.0);         ( 484637.5,
3717462.5,     469.8,     469.8,       0.0);
     ( 484662.5, 3717462.5,     470.0,     470.3,       0.0);         ( 484687.5,
3717462.5,     467.7,     470.7,       0.0);
     ( 484712.5, 3717462.5,     464.0,     470.7,       0.0);         ( 484737.5,
3717462.5,     462.3,     470.7,       0.0);
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3717487.5,     458.3,     607.1,       0.0);
     ( 483437.5, 3717487.5,     458.0,     607.1,       0.0);         ( 483462.5,
3717487.5,     457.7,     607.1,       0.0);
     ( 483487.5, 3717487.5,     457.3,     607.1,       0.0);         ( 483512.5,
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     ( 483537.5, 3717487.5,     456.5,     607.1,       0.0);         ( 483562.5,
3717487.5,     455.8,     607.1,       0.0);
     ( 483587.5, 3717487.5,     454.7,     607.1,       0.0);         ( 483612.5,
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     ( 483912.5, 3717487.5,     458.9,     607.1,       0.0);         ( 483937.5,
3717487.5,     458.9,     607.1,       0.0);
     ( 483962.5, 3717487.5,     458.9,     607.1,       0.0);         ( 483987.5,
3717487.5,     459.2,     607.1,       0.0);
     ( 484012.5, 3717487.5,     459.5,     607.1,       0.0);         ( 484037.5,
3717487.5,     459.5,     607.1,       0.0);
     ( 484062.5, 3717487.5,     459.5,     607.1,       0.0);         ( 484537.5,
3717487.5,     463.6,     463.6,       0.0);
     ( 484562.5, 3717487.5,     463.8,     463.8,       0.0);         ( 484587.5,
3717487.5,     464.4,     469.2,       0.0);
     ( 484612.5, 3717487.5,     466.6,     469.3,       0.0);         ( 484637.5,
3717487.5,     468.9,     469.7,       0.0);
     ( 484662.5, 3717487.5,     470.4,     470.4,       0.0);         ( 484687.5,
3717487.5,     469.9,     469.9,       0.0);
     ( 484712.5, 3717487.5,     465.1,     470.7,       0.0);         ( 484737.5,
3717487.5,     463.0,     470.7,       0.0);
     ( 484762.5, 3717487.5,     461.7,     470.5,       0.0);         ( 483412.5,
3717512.5,     459.8,     607.1,       0.0);
     ( 483437.5, 3717512.5,     460.7,     607.1,       0.0);         ( 483462.5,
3717512.5,     460.5,     607.1,       0.0);
     ( 483487.5, 3717512.5,     459.3,     607.1,       0.0);         ( 483512.5,
3717512.5,     458.1,     607.1,       0.0);
     ( 483537.5, 3717512.5,     457.4,     607.1,       0.0);         ( 483562.5,
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     ( 483587.5, 3717512.5,     456.0,     607.1,       0.0);         ( 483612.5,
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3717512.5,     460.8,     607.1,       0.0);
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(484562.5, 3717512.5, 463.3, 463.3, 0.0); (484587.5, 3717512.5, 463.7, 463.7, 0.0);
(484612.5, 3717512.5, 465.1, 470.3, 0.0); (484637.5, 3717512.5, 466.9, 470.5, 0.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(484662.5, 3717512.5, 468.4, 470.4, 0.0); (484687.5, 3717512.5, 469.0, 469.8, 0.0);
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(484762.5, 3717512.5, 463.0, 463.0, 0.0); (483412.5, 3717537.5, 460.7, 607.1, 0.0);
(483437.5, 3717537.5, 463.6, 607.1, 0.0); (483462.5, 3717537.5, 464.2, 607.1, 0.0);
(483487.5, 3717537.5, 462.6, 607.1, 0.0); (483512.5, 3717537.5, 460.7, 607.1, 0.0);
(483537.5, 3717537.5, 459.3, 607.1, 0.0); (483562.5, 3717537.5, 458.2, 607.1, 0.0);
(483587.5, 3717537.5, 457.2, 607.1, 0.0); (483612.5, 3717537.5, 456.0, 607.1, 0.0);
(483637.5, 3717537.5, 454.8, 607.1, 0.0); (483937.5, 3717537.5, 462.9, 607.1, 0.0);
(483962.5, 3717537.5, 462.6, 607.1, 0.0); (483987.5, 3717537.5, 462.3, 607.1, 0.0);
(484012.5, 3717537.5, 462.4, 607.1, 0.0); (484037.5, 3717537.5, 462.8, 607.1, 0.0);
(484062.5, 3717537.5, 463.0, 607.1, 0.0); (483412.5, 3717562.5, 460.7, 607.1, 0.0);
(483437.5, 3717562.5, 463.5, 607.1, 0.0); (483462.5, 3717562.5, 464.8, 607.1, 0.0);
(483487.5, 3717562.5, 464.3, 607.1, 0.0); (483512.5, 3717562.5, 463.0, 607.1, 0.0);

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     ( 483587.5, 3717562.5,     458.6,     607.1,       0.0);         ( 483612.5,
3717562.5,     457.2,     607.1,       0.0);
     ( 483637.5, 3717562.5,     456.0,     607.1,       0.0);         ( 483937.5,
3717562.5,     464.7,     607.1,       0.0);
     ( 483962.5, 3717562.5,     464.4,     607.1,       0.0);         ( 483987.5,
3717562.5,     463.7,     607.1,       0.0);
     ( 484012.5, 3717562.5,     463.8,     607.1,       0.0);         ( 484037.5,
3717562.5,     464.2,     607.1,       0.0);
     ( 484062.5, 3717562.5,     464.8,     607.1,       0.0);         ( 483412.5,
3717587.5,     460.2,     607.1,       0.0);
     ( 483437.5, 3717587.5,     462.5,     607.1,       0.0);         ( 483462.5,
3717587.5,     464.1,     607.1,       0.0);
     ( 483487.5, 3717587.5,     464.3,     607.1,       0.0);         ( 483512.5,
3717587.5,     464.2,     607.1,       0.0);
     ( 483537.5, 3717587.5,     463.4,     607.1,       0.0);         ( 483562.5,
3717587.5,     462.2,     607.1,       0.0);
     ( 483587.5, 3717587.5,     460.6,     607.1,       0.0);         ( 483612.5,
3717587.5,     458.4,     607.1,       0.0);
     ( 483637.5, 3717587.5,     456.9,     607.1,       0.0);         ( 484512.5,
3717612.5,     460.5,     460.5,       0.0);
     ( 484537.5, 3717612.5,     460.1,     460.1,       0.0);         ( 484562.5,
3717612.5,     460.5,     460.5,       0.0);
     ( 484587.5, 3717612.5,     460.5,     460.5,       0.0);         ( 484612.5,
3717612.5,     460.5,     460.5,       0.0);
     ( 484637.5, 3717612.5,     461.0,     461.0,       0.0);         ( 484662.5,
3717612.5,     461.2,     461.2,       0.0);
     ( 484687.5, 3717612.5,     461.5,     461.5,       0.0);         ( 484712.5,
3717612.5,     461.4,     461.4,       0.0);
     ( 484737.5, 3717612.5,     460.1,     463.9,       0.0);         ( 484762.5,
3717612.5,     458.7,     464.9,       0.0);
     ( 484787.5, 3717612.5,     457.5,     465.8,       0.0);         ( 484812.5,
3717612.5,     456.4,     465.8,       0.0);
     ( 484837.5, 3717612.5,     453.2,     465.8,       0.0);         ( 484862.5,
3717612.5,     451.7,     465.8,       0.0);
     ( 484512.5, 3717637.5,     460.7,     460.7,       0.0);         ( 484537.5,
3717637.5,     459.8,     459.8,       0.0);
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3717637.5,     459.7,     459.7,       0.0);
     ( 484612.5, 3717637.5,     459.9,     459.9,       0.0);         ( 484637.5,
3717637.5,     459.9,     459.9,       0.0);
     ( 484662.5, 3717637.5,     460.2,     460.2,       0.0);         ( 484687.5,
3717637.5,     460.3,     460.3,       0.0);
     ( 484712.5, 3717637.5,     460.1,     460.1,       0.0);         ( 484737.5,
3717637.5,     459.1,     459.1,       0.0);
     ( 484762.5, 3717637.5,     457.7,     465.8,       0.0);         ( 484787.5,
3717637.5,     457.1,     465.8,       0.0);
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(484537.5, 3717662.5, 459.3, 496.2, 0.0); (484562.5, 3717662.5, 458.8, 495.9, 0.0);
(484587.5, 3717662.5, 458.8, 458.8, 0.0); (484612.5, 3717662.5, 458.9, 458.9, 0.0);
(484637.5, 3717662.5, 458.8, 458.8, 0.0); (484662.5, 3717662.5, 458.8, 458.8, 0.0);
(484687.5, 3717662.5, 459.5, 459.5, 0.0); (484712.5, 3717662.5, 459.8, 459.8, 0.0);
(484737.5, 3717662.5, 459.9, 459.9, 0.0); (484762.5, 3717662.5, 459.0, 465.8, 0.0);
(484787.5, 3717662.5, 461.7, 465.8, 0.0); (484812.5, 3717662.5, 461.6, 465.8, 0.0);

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(484837.5, 3717662.5, 458.0, 465.8, 0.0); (484862.5, 3717662.5, 455.3, 465.8, 0.0);
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(484562.5, 3717687.5, 458.5, 496.2, 0.0); (484587.5, 3717687.5, 458.2, 496.2, 0.0);
(484612.5, 3717687.5, 458.0, 458.0, 0.0); (484637.5, 3717687.5, 457.9, 457.9, 0.0);
(484662.5, 3717687.5, 457.9, 457.9, 0.0); (484687.5, 3717687.5, 458.6, 458.6, 0.0);
(484712.5, 3717687.5, 459.0, 459.0, 0.0); (484737.5, 3717687.5, 459.6, 459.6, 0.0);
(484762.5, 3717687.5, 461.2, 465.1, 0.0); (484787.5, 3717687.5, 463.7, 465.1, 0.0);
(484812.5, 3717687.5, 465.4, 465.4, 0.0); (484837.5, 3717687.5, 463.1, 465.8, 0.0);
(484862.5, 3717687.5, 456.8, 465.8, 0.0); (484512.5, 3717712.5, 460.9, 496.2, 0.0);
(484537.5, 3717712.5, 459.2, 496.2, 0.0); (484562.5, 3717712.5, 458.1, 496.2, 0.0);

     (484587.5, 3717712.5,   457.7,   496.2,   0.0);   (484612.5,
3717712.5,   457.5,   496.2,   0.0);
     (484637.5, 3717712.5,   457.5,   457.5,   0.0);   (484662.5,
3717712.5,   457.5,   457.5,   0.0);
     (484687.5, 3717712.5,   457.7,   457.7,   0.0);   (484712.5,
3717712.5,   457.9,   457.9,   0.0);
     (484737.5, 3717712.5,   458.4,   458.4,   0.0);   (484762.5,
3717712.5,   459.1,   465.8,   0.0);
     (484787.5, 3717712.5,   459.7,   465.8,   0.0);   (484812.5,
3717712.5,   461.0,   465.8,   0.0);
     (484837.5, 3717712.5,   460.7,   465.8,   0.0);   (484862.5,
3717712.5,   457.5,   465.8,   0.0);
     (484512.5, 3717737.5,   460.4,   496.2,   0.0);   (484537.5,
3717737.5,   459.3,   496.2,   0.0);
     (484562.5, 3717737.5,   458.6,   496.2,   0.0);   (484587.5,
3717737.5,   458.1,   496.2,   0.0);
     (484612.5, 3717737.5,   457.9,   496.2,   0.0);   (484637.5,
3717737.5,   457.6,   496.2,   0.0);
     (484662.5, 3717737.5,   457.2,   457.2,   0.0);   (484687.5,
3717737.5,   456.9,   456.9,   0.0);
     (484712.5, 3717737.5,   456.8,   456.8,   0.0);   (484737.5,
3717737.5,   457.1,   457.1,   0.0);
     (484762.5, 3717737.5,   457.4,   465.8,   0.0);   (484787.5,
3717737.5,   457.2,   465.8,   0.0);
     (484812.5, 3717737.5,   456.7,   465.8,   0.0);   (484837.5,
3717737.5,   456.1,   465.8,   0.0);
     (484862.5, 3717737.5,   455.4,   465.8,   0.0);   (484512.5,
3717762.5,   460.9,   496.2,   0.0);
     (484537.5, 3717762.5,   460.3,   496.2,   0.0);   (484562.5,
3717762.5,   459.6,   496.2,   0.0);
     (484587.5, 3717762.5,   459.5,   496.2,   0.0);   (484612.5,
3717762.5,   458.9,   496.2,   0.0);
     (484637.5, 3717762.5,   457.9,   496.2,   0.0);   (484662.5,
3717762.5,   457.4,   495.9,   0.0);
     (484687.5, 3717762.5,   456.8,   456.8,   0.0);   (484712.5,
3717762.5,   456.5,   456.5,   0.0);
     (484737.5, 3717762.5,   456.6,   456.6,   0.0);   (484762.5,
3717762.5,   457.1,   457.1,   0.0);
     (484787.5, 3717762.5,   456.4,   465.8,   0.0);   (484812.5,
3717762.5,   454.8,   465.8,   0.0);
     (484837.5, 3717762.5,   453.4,   465.8,   0.0);   (484862.5,
3717762.5,   452.4,   465.8,   0.0);
     (484512.5, 3717787.5,   461.7,   496.2,   0.0);   (484537.5,
3717787.5,   461.3,   496.2,   0.0);
     (484562.5, 3717787.5,   462.0,   496.2,   0.0);   (484587.5,
3717787.5,   461.3,   496.2,   0.0);
     (484612.5, 3717787.5,   459.7,   496.2,   0.0);   (484637.5,
3717787.5,   458.6,   496.2,   0.0);

(484662.5, 3717787.5, 457.8, 496.2, 0.0); (484687.5, 3717787.5, 457.3, 457.3, 0.0);
(484712.5, 3717787.5, 457.2, 457.2, 0.0); (484737.5, 3717787.5, 457.6, 457.6, 0.0);
(484762.5, 3717787.5, 457.4, 457.4, 0.0); (484787.5, 3717787.5, 456.6, 456.6, 0.0);
(484812.5, 3717787.5, 454.8, 465.8, 0.0); (484837.5, 3717787.5, 452.4, 465.8, 0.0);
(484862.5, 3717787.5, 451.7, 465.8, 0.0); (483412.5, 3717812.5, 464.2, 646.9, 0.0);
(483437.5, 3717812.5, 463.9, 646.9, 0.0); (483462.5, 3717812.5, 463.6, 646.9, 0.0);
(483487.5, 3717812.5, 463.7, 646.9, 0.0); (484512.5, 3717812.5, 462.6, 496.2, 0.0);
(484537.5, 3717812.5, 463.8, 496.2, 0.0); (484562.5, 3717812.5, 464.0, 496.2, 0.0);
(484587.5, 3717812.5, 463.0, 496.2, 0.0); (484612.5, 3717812.5, 460.8, 496.2, 0.0);
(484637.5, 3717812.5, 458.9, 496.2, 0.0); (484662.5, 3717812.5, 458.2, 496.2, 0.0);
(484687.5, 3717812.5, 457.9, 457.9, 0.0); (484712.5, 3717812.5, 457.9, 457.9, 0.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(484737.5, 3717812.5, 458.1, 458.1, 0.0); (484762.5, 3717812.5, 458.1, 458.1, 0.0);
(484787.5, 3717812.5, 457.1, 457.1, 0.0); (484812.5, 3717812.5, 455.7, 455.7, 0.0);
(484837.5, 3717812.5, 453.8, 453.8, 0.0); (484862.5, 3717812.5, 453.0, 453.0, 0.0);
(483412.5, 3717837.5, 465.0, 646.9, 0.0); (483437.5, 3717837.5, 464.7, 646.9, 0.0);
(483462.5, 3717837.5, 464.4, 646.9, 0.0); (483487.5, 3717837.5, 464.6, 646.9, 0.0);
(483512.5, 3717837.5, 465.0, 646.9, 0.0); (484512.5, 3717837.5, 463.4, 496.2, 0.0);
(484537.5, 3717837.5, 464.0, 496.2, 0.0); (484562.5, 3717837.5, 464.0, 496.2, 0.0);

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     ( 484587.5, 3717837.5,     463.6,     496.2,       0.0);         ( 484612.5,
3717837.5,     461.6,     496.2,       0.0);
     ( 484637.5, 3717837.5,     459.7,     496.2,       0.0);         ( 484662.5,
3717837.5,     458.8,     496.2,       0.0);
     ( 484687.5, 3717837.5,     458.6,     495.9,       0.0);         ( 484712.5,
3717837.5,     458.9,     458.9,       0.0);
     ( 484737.5, 3717837.5,     458.8,     458.8,       0.0);         ( 484762.5,
3717837.5,     458.4,     458.4,       0.0);
     ( 484787.5, 3717837.5,     457.8,     457.8,       0.0);         ( 484812.5,
3717837.5,     456.6,     456.6,       0.0);
     ( 484837.5, 3717837.5,     455.5,     455.5,       0.0);         ( 484862.5,
3717837.5,     454.3,     454.3,       0.0);
     ( 483412.5, 3717862.5,     465.7,     646.9,       0.0);         ( 483437.5,
3717862.5,     465.7,     646.9,       0.0);
     ( 483462.5, 3717862.5,     465.9,     646.9,       0.0);         ( 483487.5,
3717862.5,     466.3,     646.9,       0.0);
     ( 483512.5, 3717862.5,     466.3,     646.9,       0.0);         ( 484512.5,
3717862.5,     463.2,     601.0,       0.0);
     ( 484537.5, 3717862.5,     463.8,     496.2,       0.0);         ( 484562.5,
3717862.5,     463.7,     496.2,       0.0);
     ( 484587.5, 3717862.5,     463.3,     496.2,       0.0);         ( 484612.5,
3717862.5,     462.0,     496.2,       0.0);
     ( 484637.5, 3717862.5,     460.4,     496.2,       0.0);         ( 484662.5,
3717862.5,     459.5,     496.2,       0.0);
     ( 484687.5, 3717862.5,     459.2,     495.9,       0.0);         ( 484712.5,
3717862.5,     459.3,     459.3,       0.0);
     ( 484737.5, 3717862.5,     458.9,     458.9,       0.0);         ( 484762.5,
3717862.5,     458.5,     458.5,       0.0);
     ( 484787.5, 3717862.5,     458.2,     458.2,       0.0);         ( 484812.5,
3717862.5,     457.4,     457.4,       0.0);
     ( 484837.5, 3717862.5,     456.3,     456.3,       0.0);         ( 484862.5,
3717862.5,     455.6,     455.6,       0.0);
     ( 483412.5, 3717887.5,     466.6,     659.5,       0.0);         ( 483437.5,
3717887.5,     466.8,     646.9,       0.0);
     ( 483462.5, 3717887.5,     467.8,     646.9,       0.0);         ( 483487.5,
3717887.5,     468.6,     646.9,       0.0);
     ( 483512.5, 3717887.5,     468.7,     646.9,       0.0);         ( 483537.5,
3717887.5,     468.5,     646.9,       0.0);
     ( 484512.5, 3717887.5,     463.5,     601.0,       0.0);         ( 484537.5,
3717887.5,     462.8,     601.0,       0.0);
     ( 484562.5, 3717887.5,     462.8,     496.2,       0.0);         ( 484587.5,
3717887.5,     462.6,     496.2,       0.0);
     ( 484612.5, 3717887.5,     461.8,     496.2,       0.0);         ( 484637.5,
3717887.5,     461.0,     496.2,       0.0);
     ( 484662.5, 3717887.5,     460.1,     496.2,       0.0);         ( 484687.5,
3717887.5,     459.9,     495.9,       0.0);
     ( 484712.5, 3717887.5,     459.7,     459.7,       0.0);         ( 484737.5,
3717887.5,     459.1,     459.1,       0.0);
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(484762.5, 3717887.5, 458.7, 458.7, 0.0); (484787.5, 3717887.5, 458.4, 458.4, 0.0);
(484812.5, 3717887.5, 458.0, 458.0, 0.0); (484837.5, 3717887.5, 457.1, 457.1, 0.0);
(484862.5, 3717887.5, 456.3, 456.3, 0.0); (483412.5, 3717912.5, 467.3, 660.0, 0.0);
(483437.5, 3717912.5, 467.4, 646.9, 0.0); (483462.5, 3717912.5, 468.1, 646.9, 0.0);
(483487.5, 3717912.5, 470.0, 646.9, 0.0); (483512.5, 3717912.5, 470.1, 646.9, 0.0);
(483537.5, 3717912.5, 470.1, 646.9, 0.0); (483562.5, 3717912.5, 469.5, 646.9, 0.0);
(484512.5, 3717912.5, 463.6, 607.1, 0.0); (484537.5, 3717912.5, 462.9, 601.0, 0.0);
(484562.5, 3717912.5, 462.5, 601.0, 0.0); (484587.5, 3717912.5, 462.0, 496.2, 0.0);
(484612.5, 3717912.5, 461.8, 496.2, 0.0); (484637.5, 3717912.5, 460.9, 496.2, 0.0);
(484662.5, 3717912.5, 460.7, 496.2, 0.0); (484687.5, 3717912.5, 460.1, 495.9, 0.0);
(484712.5, 3717912.5, 459.8, 459.8, 0.0); (484737.5, 3717912.5, 459.4, 459.4, 0.0);
(484762.5, 3717912.5, 459.0, 459.0, 0.0); (484787.5, 3717912.5, 458.6, 458.6, 0.0);
(484812.5, 3717912.5, 458.2, 458.2, 0.0); (484837.5, 3717912.5, 457.8, 457.8, 0.0);
(484862.5, 3717912.5, 456.7, 456.7, 0.0); (483412.5, 3717937.5, 468.0, 660.0, 0.0);

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(483437.5, 3717937.5, 468.0, 646.9, 0.0); (483462.5, 3717937.5, 468.1, 646.9, 0.0);
(483487.5, 3717937.5, 469.8, 646.9, 0.0); (483512.5, 3717937.5, 470.1, 646.9, 0.0);
(483537.5, 3717937.5, 470.1, 646.9, 0.0); (483562.5, 3717937.5, 470.1, 646.9, 0.0);
(483587.5, 3717937.5, 469.1, 646.9, 0.0); (484512.5, 3717937.5, 463.6, 607.1, 0.0);

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     ( 484537.5, 3717937.5,     463.1,     607.1,       0.0);         ( 484562.5,
3717937.5,     462.4,     601.0,       0.0);
     ( 484587.5, 3717937.5,     462.2,     601.0,       0.0);         ( 484612.5,
3717937.5,     461.6,     601.0,       0.0);
     ( 484637.5, 3717937.5,     461.1,     496.2,       0.0);         ( 484662.5,
3717937.5,     460.6,     496.2,       0.0);
     ( 484687.5, 3717937.5,     460.4,     495.9,       0.0);         ( 484712.5,
3717937.5,     460.0,     460.0,       0.0);
     ( 484737.5, 3717937.5,     459.6,     459.6,       0.0);         ( 484762.5,
3717937.5,     459.3,     459.3,       0.0);
     ( 484787.5, 3717937.5,     458.9,     458.9,       0.0);         ( 484812.5,
3717937.5,     458.4,     458.4,       0.0);
     ( 484837.5, 3717937.5,     458.1,     458.1,       0.0);         ( 484862.5,
3717937.5,     457.4,     457.4,       0.0);
     ( 483412.5, 3717962.5,     468.9,     660.0,       0.0);         ( 483437.5,
3717962.5,     469.0,     646.9,       0.0);
     ( 483462.5, 3717962.5,     468.8,     646.9,       0.0);         ( 483487.5,
3717962.5,     468.8,     646.9,       0.0);
     ( 483512.5, 3717962.5,     469.5,     646.9,       0.0);         ( 483537.5,
3717962.5,     469.7,     646.9,       0.0);
     ( 483562.5, 3717962.5,     469.3,     646.9,       0.0);         ( 483587.5,
3717962.5,     468.0,     646.9,       0.0);
     ( 483612.5, 3717962.5,     466.9,     646.9,       0.0);         ( 484512.5,
3717962.5,     463.6,     607.1,       0.0);
     ( 484537.5, 3717962.5,     463.1,     607.1,       0.0);         ( 484562.5,
3717962.5,     462.5,     607.1,       0.0);
     ( 484587.5, 3717962.5,     462.2,     601.0,       0.0);         ( 484612.5,
3717962.5,     461.6,     601.0,       0.0);
     ( 484637.5, 3717962.5,     461.2,     601.0,       0.0);         ( 484662.5,
3717962.5,     460.7,     496.2,       0.0);
     ( 484687.5, 3717962.5,     460.6,     495.9,       0.0);         ( 484712.5,
3717962.5,     460.3,     460.3,       0.0);
     ( 484737.5, 3717962.5,     459.6,     459.6,       0.0);         ( 484762.5,
3717962.5,     459.2,     459.2,       0.0);
     ( 484787.5, 3717962.5,     458.9,     458.9,       0.0);         ( 484812.5,
3717962.5,     458.6,     458.6,       0.0);
     ( 484837.5, 3717962.5,     458.1,     458.1,       0.0);         ( 484862.5,
3717962.5,     457.5,     457.5,       0.0);
     ( 483412.5, 3717987.5,     469.9,     660.0,       0.0);         ( 483437.5,
3717987.5,     469.9,     646.9,       0.0);
     ( 483462.5, 3717987.5,     469.9,     646.9,       0.0);         ( 483487.5,
3717987.5,     469.7,     646.9,       0.0);
     ( 483512.5, 3717987.5,     469.2,     646.9,       0.0);         ( 483537.5,
3717987.5,     468.9,     646.9,       0.0);
     ( 483562.5, 3717987.5,     468.3,     646.9,       0.0);         ( 483587.5,
3717987.5,     467.5,     646.9,       0.0);
     ( 483612.5, 3717987.5,     467.0,     646.9,       0.0);         ( 484512.5,
3717987.5,     463.6,     607.1,       0.0);
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(484537.5, 3717987.5, 463.2, 607.1, 0.0); (484562.5, 3717987.5, 462.9, 607.1, 0.0);
(484587.5, 3717987.5, 462.3, 606.7, 0.0); (484612.5, 3717987.5, 462.0, 601.0, 0.0);
(484637.5, 3717987.5, 461.2, 601.0, 0.0); (484662.5, 3717987.5, 460.9, 601.0, 0.0);
(484687.5, 3717987.5, 460.1, 495.9, 0.0); (484712.5, 3717987.5, 460.1, 460.1, 0.0);
(484737.5, 3717987.5, 459.8, 459.8, 0.0); (484762.5, 3717987.5, 459.3, 459.3, 0.0);
(484787.5, 3717987.5, 459.0, 459.0, 0.0); (484812.5, 3717987.5, 458.6, 458.6, 0.0);
(484837.5, 3717987.5, 458.2, 458.2, 0.0); (484862.5, 3717987.5, 457.9, 457.9, 0.0);
(483412.5, 3718012.5, 470.9, 660.0, 0.0); (483437.5, 3718012.5, 470.7, 646.9, 0.0);
(483462.5, 3718012.5, 470.7, 646.9, 0.0); (483487.5, 3718012.5, 470.4, 646.9, 0.0);
(483512.5, 3718012.5, 469.9, 646.9, 0.0); (483537.5, 3718012.5, 469.5, 646.9, 0.0);
(483562.5, 3718012.5, 468.9, 646.9, 0.0); (483587.5, 3718012.5, 468.5, 646.9, 0.0);
(483612.5, 3718012.5, 468.7, 646.9, 0.0); (483637.5, 3718012.5, 466.8, 646.9, 0.0);
(484512.5, 3718012.5, 463.7, 607.1, 0.0); (484537.5, 3718012.5, 463.9, 607.1, 0.0);
(484562.5, 3718012.5, 463.5, 607.1, 0.0); (484587.5, 3718012.5, 462.9, 607.1, 0.0);
(484612.5, 3718012.5, 462.0, 601.0, 0.0); (484637.5, 3718012.5, 460.9, 601.0, 0.0);
(484662.5, 3718012.5, 460.3, 601.0, 0.0); (484687.5, 3718012.5, 460.1, 601.0, 0.0);
(484712.5, 3718012.5, 460.0, 460.0, 0.0); (484737.5, 3718012.5, 459.7, 459.7, 0.0);

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(484762.5, 3718012.5, 459.4, 459.4, 0.0); (484787.5, 3718012.5, 459.0, 459.0, 0.0);

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     ( 484812.5, 3718012.5,     458.8,     458.8,       0.0);         ( 484837.5,
3718012.5,     458.4,     458.4,       0.0);
     ( 484862.5, 3718012.5,     458.2,     458.2,       0.0);         ( 483412.5,
3718037.5,     471.9,     660.0,       0.0);
     ( 483437.5, 3718037.5,     471.7,     646.9,       0.0);         ( 483462.5,
3718037.5,     471.6,     646.9,       0.0);
     ( 483487.5, 3718037.5,     471.1,     646.9,       0.0);         ( 483512.5,
3718037.5,     470.7,     646.9,       0.0);
     ( 483537.5, 3718037.5,     469.9,     646.9,       0.0);         ( 483562.5,
3718037.5,     469.2,     646.9,       0.0);
     ( 483587.5, 3718037.5,     469.5,     646.9,       0.0);         ( 483612.5,
3718037.5,     470.0,     646.9,       0.0);
     ( 483637.5, 3718037.5,     469.0,     646.9,       0.0);         ( 483662.5,
3718037.5,     468.6,     646.9,       0.0);
     ( 484512.5, 3718037.5,     464.0,     607.1,       0.0);         ( 484537.5,
3718037.5,     464.0,     607.1,       0.0);
     ( 484562.5, 3718037.5,     463.7,     607.1,       0.0);         ( 484587.5,
3718037.5,     463.0,     607.1,       0.0);
     ( 484612.5, 3718037.5,     461.9,     607.1,       0.0);         ( 484637.5,
3718037.5,     461.0,     606.7,       0.0);
     ( 484662.5, 3718037.5,     460.0,     601.0,       0.0);         ( 484687.5,
3718037.5,     459.9,     601.0,       0.0);
     ( 484712.5, 3718037.5,     459.4,     601.0,       0.0);         ( 484737.5,
3718037.5,     459.5,     459.5,       0.0);
     ( 484762.5, 3718037.5,     459.1,     459.1,       0.0);         ( 484787.5,
3718037.5,     459.1,     459.1,       0.0);
     ( 484812.5, 3718037.5,     458.8,     458.8,       0.0);         ( 484837.5,
3718037.5,     458.5,     458.5,       0.0);
     ( 484862.5, 3718037.5,     458.1,     458.1,       0.0);         ( 483412.5,
3718062.5,     472.9,     660.0,       0.0);
     ( 483437.5, 3718062.5,     472.6,     646.9,       0.0);         ( 483462.5,
3718062.5,     472.3,     646.9,       0.0);
     ( 483487.5, 3718062.5,     471.9,     646.9,       0.0);         ( 483512.5,
3718062.5,     471.2,     646.9,       0.0);
     ( 483537.5, 3718062.5,     470.5,     646.9,       0.0);         ( 483562.5,
3718062.5,     469.7,     646.9,       0.0);
     ( 483587.5, 3718062.5,     470.2,     646.9,       0.0);         ( 483612.5,
3718062.5,     470.3,     646.9,       0.0);
     ( 483637.5, 3718062.5,     469.7,     646.9,       0.0);         ( 483662.5,
3718062.5,     469.7,     646.9,       0.0);
     ( 484512.5, 3718062.5,     464.0,     607.1,       0.0);         ( 484537.5,
3718062.5,     464.0,     607.1,       0.0);
     ( 484562.5, 3718062.5,     463.6,     607.1,       0.0);         ( 484587.5,
3718062.5,     462.5,     607.1,       0.0);
     ( 484612.5, 3718062.5,     461.6,     607.1,       0.0);         ( 484637.5,
3718062.5,     460.2,     607.1,       0.0);
     ( 484662.5, 3718062.5,     459.4,     607.1,       0.0);         ( 484687.5,
3718062.5,     458.9,     601.0,       0.0);
```

```
     ( 483412.5, 3718087.5,     474.4,     646.9,       0.0);         ( 483437.5,
3718087.5,     474.2,     646.9,       0.0);
     ( 483462.5, 3718087.5,     473.5,     646.9,       0.0);         ( 483487.5,
3718087.5,     472.6,     646.9,       0.0);
     ( 483512.5, 3718087.5,     472.0,     646.9,       0.0);         ( 483537.5,
3718087.5,     471.0,     646.9,       0.0);
     ( 483562.5, 3718087.5,     470.5,     646.9,       0.0);         ( 483587.5,
3718087.5,     470.6,     646.9,       0.0);
     ( 483612.5, 3718087.5,     470.0,     646.9,       0.0);         ( 483637.5,
3718087.5,     470.1,     646.9,       0.0);
     ( 483662.5, 3718087.5,     470.9,     646.9,       0.0);         ( 484512.5,
3718087.5,     463.4,     607.1,       0.0);
     ( 484537.5, 3718087.5,     463.4,     607.1,       0.0);         ( 484562.5,
3718087.5,     463.2,     607.1,       0.0);
     ( 484587.5, 3718087.5,     462.5,     607.1,       0.0);         ( 484612.5,
3718087.5,     461.6,     607.1,       0.0);
     ( 484637.5, 3718087.5,     460.4,     607.1,       0.0);         ( 484662.5,
3718087.5,     459.0,     607.1,       0.0);
     ( 484687.5, 3718087.5,     458.3,     607.1,       0.0);         ( 483412.5,
3718112.5,     476.0,     646.9,       0.0);
     ( 483437.5, 3718112.5,     475.5,     646.9,       0.0);         ( 483462.5,
3718112.5,     474.3,     646.9,       0.0);
     ( 483487.5, 3718112.5,     473.4,     646.9,       0.0);         ( 483512.5,
3718112.5,     472.9,     646.9,       0.0);
     ( 483537.5, 3718112.5,     472.3,     646.9,       0.0);         ( 483562.5,
3718112.5,     471.9,     646.9,       0.0);
     ( 483587.5, 3718112.5,     470.7,     646.9,       0.0);         ( 483612.5,
3718112.5,     470.8,     646.9,       0.0);
     ( 483637.5, 3718112.5,     471.3,     646.9,       0.0);         ( 483662.5,
3718112.5,     472.0,     646.9,       0.0);
     ( 483687.5, 3718112.5,     472.7,     646.9,       0.0);         ( 484512.5,
3718112.5,     463.1,     607.1,       0.0);
     ( 484537.5, 3718112.5,     462.8,     607.1,       0.0);         ( 484562.5,
3718112.5,     462.6,     607.1,       0.0);
     ( 484587.5, 3718112.5,     461.9,     607.1,       0.0);         ( 484612.5,
3718112.5,     461.2,     607.1,       0.0);
     ( 484637.5, 3718112.5,     459.9,     607.1,       0.0);         ( 484662.5,
3718112.5,     458.9,     607.1,       0.0);
     ( 484687.5, 3718112.5,     458.0,     607.1,       0.0);         ( 483412.5,
3718137.5,     476.2,     646.9,       0.0);
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***        09:53:15

                                    PAGE 390
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(483437.5, 3718137.5, 475.9, 646.9, 0.0); (483462.5, 3718137.5, 474.6, 646.9, 0.0);
(483487.5, 3718137.5, 474.2, 646.9, 0.0); (483512.5, 3718137.5, 473.9, 646.9, 0.0);
(483537.5, 3718137.5, 473.9, 646.9, 0.0); (483562.5, 3718137.5, 473.7, 646.9, 0.0);
(483587.5, 3718137.5, 473.5, 646.9, 0.0); (483612.5, 3718137.5, 473.4, 646.9, 0.0);
(483637.5, 3718137.5, 473.6, 646.9, 0.0); (483662.5, 3718137.5, 473.4, 646.9, 0.0);
(483687.5, 3718137.5, 473.7, 646.9, 0.0); (484512.5, 3718137.5, 463.1, 607.1, 0.0);
(484537.5, 3718137.5, 462.6, 607.1, 0.0); (484562.5, 3718137.5, 462.4, 607.1, 0.0);
(484587.5, 3718137.5, 462.1, 607.1, 0.0); (484612.5, 3718137.5, 461.2, 607.1, 0.0);
(484637.5, 3718137.5, 459.9, 607.1, 0.0); (484662.5, 3718137.5, 459.1, 607.1, 0.0);
(484687.5, 3718137.5, 458.4, 607.1, 0.0); (483412.5, 3718162.5, 475.9, 660.0, 0.0);
(483437.5, 3718162.5, 475.8, 646.9, 0.0); (483462.5, 3718162.5, 475.4, 646.9, 0.0);
(483487.5, 3718162.5, 475.1, 646.9, 0.0); (483512.5, 3718162.5, 474.8, 646.9, 0.0);
(483537.5, 3718162.5, 474.6, 646.9, 0.0); (483562.5, 3718162.5, 475.2, 646.9, 0.0);
(483587.5, 3718162.5, 475.7, 646.9, 0.0); (483612.5, 3718162.5, 475.8, 646.9, 0.0);
(483637.5, 3718162.5, 475.1, 646.9, 0.0); (483662.5, 3718162.5, 475.1, 646.9, 0.0);
(483687.5, 3718162.5, 475.1, 646.9, 0.0); (484512.5, 3718162.5, 463.0, 607.1, 0.0);
(484537.5, 3718162.5, 462.8, 607.1, 0.0); (484562.5, 3718162.5, 462.3, 607.1, 0.0);
(484587.5, 3718162.5, 461.8, 607.1, 0.0); (484612.5, 3718162.5, 461.1, 607.1, 0.0);
(484637.5, 3718162.5, 460.3, 607.1, 0.0); (484662.5, 3718162.5, 459.6, 607.1, 0.0);
(484687.5, 3718162.5, 459.1, 607.1, 0.0); (484712.5, 3718162.5, 458.5, 607.1, 0.0);
(484737.5, 3718162.5, 458.1, 606.7, 0.0); (484762.5, 3718162.5, 457.6, 601.0, 0.0);
(484787.5, 3718162.5, 457.0, 601.0, 0.0); (484812.5, 3718162.5, 456.6, 601.0, 0.0);

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     ( 484837.5, 3718162.5,     455.8,     601.0,       0.0);         ( 484862.5,
3718162.5,     454.8,     454.8,       0.0);
     ( 483412.5, 3718187.5,     476.5,     660.0,       0.0);         ( 483437.5,
3718187.5,     477.2,     646.9,       0.0);
     ( 483462.5, 3718187.5,     476.5,     646.9,       0.0);         ( 483487.5,
3718187.5,     475.9,     646.9,       0.0);
     ( 483512.5, 3718187.5,     475.7,     646.9,       0.0);         ( 483537.5,
3718187.5,     475.1,     646.9,       0.0);
     ( 483562.5, 3718187.5,     475.9,     646.9,       0.0);         ( 484512.5,
3718187.5,     463.0,     607.1,       0.0);
     ( 484537.5, 3718187.5,     462.6,     607.1,       0.0);         ( 484562.5,
3718187.5,     462.4,     607.1,       0.0);
     ( 484587.5, 3718187.5,     462.2,     607.1,       0.0);         ( 484612.5,
3718187.5,     461.4,     607.1,       0.0);
     ( 484637.5, 3718187.5,     460.8,     607.1,       0.0);         ( 484662.5,
3718187.5,     459.9,     607.1,       0.0);
     ( 484687.5, 3718187.5,     459.5,     607.1,       0.0);         ( 484712.5,
3718187.5,     459.1,     607.1,       0.0);
     ( 484737.5, 3718187.5,     458.5,     607.1,       0.0);         ( 484762.5,
3718187.5,     458.0,     601.0,       0.0);
     ( 484787.5, 3718187.5,     457.5,     601.0,       0.0);         ( 484812.5,
3718187.5,     456.9,     601.0,       0.0);
     ( 484837.5, 3718187.5,     456.1,     601.0,       0.0);         ( 484862.5,
3718187.5,     456.2,     456.2,       0.0);
     ( 484162.5, 3718212.5,     470.6,     607.1,       0.0);         ( 484187.5,
3718212.5,     470.2,     607.1,       0.0);
     ( 484212.5, 3718212.5,     469.7,     607.1,       0.0);         ( 484512.5,
3718212.5,     463.2,     607.1,       0.0);
     ( 484537.5, 3718212.5,     463.0,     607.1,       0.0);         ( 484562.5,
3718212.5,     462.8,     607.1,       0.0);
     ( 484587.5, 3718212.5,     462.3,     607.1,       0.0);         ( 484612.5,
3718212.5,     461.7,     607.1,       0.0);
     ( 484637.5, 3718212.5,     461.0,     607.1,       0.0);         ( 484662.5,
3718212.5,     460.3,     607.1,       0.0);
     ( 484687.5, 3718212.5,     459.8,     607.1,       0.0);         ( 484712.5,
3718212.5,     459.3,     607.1,       0.0);
     ( 484737.5, 3718212.5,     458.9,     607.1,       0.0);         ( 484762.5,
3718212.5,     458.4,     601.0,       0.0);
     ( 484787.5, 3718212.5,     457.7,     601.0,       0.0);         ( 484812.5,
3718212.5,     456.9,     601.0,       0.0);
     ( 484837.5, 3718212.5,     457.6,     601.0,       0.0);         ( 484862.5,
3718212.5,     457.9,     457.9,       0.0);
     ( 484512.5, 3718237.5,     463.7,     607.1,       0.0);         ( 484537.5,
3718237.5,     463.4,     607.1,       0.0);
     ( 484562.5, 3718237.5,     463.2,     607.1,       0.0);         ( 484587.5,
3718237.5,     462.6,     607.1,       0.0);
```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(484612.5, 3718237.5, 462.2, 607.1, 0.0); (484637.5, 3718237.5, 461.2, 607.1, 0.0);
(484662.5, 3718237.5, 460.6, 607.1, 0.0); (484687.5, 3718237.5, 460.0, 607.1, 0.0);
(484712.5, 3718237.5, 459.5, 607.1, 0.0); (484737.5, 3718237.5, 459.1, 607.1, 0.0);
(484762.5, 3718237.5, 458.5, 606.7, 0.0); (484787.5, 3718237.5, 457.9, 601.0, 0.0);
(484812.5, 3718237.5, 457.6, 601.0, 0.0); (484837.5, 3718237.5, 457.9, 601.0, 0.0);
(484862.5, 3718237.5, 457.9, 457.9, 0.0); (483412.5, 3718262.5, 482.9, 646.9, 0.0);
(483437.5, 3718262.5, 483.3, 646.9, 0.0); (484137.5, 3718262.5, 471.3, 607.1, 0.0);
(484162.5, 3718262.5, 470.7, 607.1, 0.0); (484212.5, 3718262.5, 469.9, 607.1, 0.0);
(484512.5, 3718262.5, 464.2, 607.1, 0.0); (484537.5, 3718262.5, 464.1, 607.1, 0.0);
(484562.5, 3718262.5, 463.7, 607.1, 0.0); (484587.5, 3718262.5, 463.1, 607.1, 0.0);
(484612.5, 3718262.5, 462.4, 607.1, 0.0); (484637.5, 3718262.5, 461.6, 607.1, 0.0);
(484662.5, 3718262.5, 460.8, 607.1, 0.0); (484687.5, 3718262.5, 459.8, 607.1, 0.0);
(484712.5, 3718262.5, 459.5, 607.1, 0.0); (484737.5, 3718262.5, 459.1, 607.1, 0.0);
(484762.5, 3718262.5, 458.7, 607.1, 0.0); (484787.5, 3718262.5, 458.0, 601.0, 0.0);
(484812.5, 3718262.5, 457.9, 601.0, 0.0); (484837.5, 3718262.5, 457.9, 601.0, 0.0);
(484862.5, 3718262.5, 457.9, 601.0, 0.0); (483412.5, 3718287.5, 483.4, 646.9, 0.0);
(483437.5, 3718287.5, 484.5, 646.9, 0.0); (484212.5, 3718287.5, 470.3, 607.1, 0.0);
(484512.5, 3718287.5, 464.7, 607.1, 0.0); (484537.5, 3718287.5, 464.6, 607.1, 0.0);
(484562.5, 3718287.5, 464.1, 607.1, 0.0); (484587.5, 3718287.5, 463.5, 607.1, 0.0);

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     ( 484612.5, 3718287.5,     462.8,     607.1,       0.0);         ( 484637.5,
3718287.5,     462.0,     607.1,       0.0);
     ( 484662.5, 3718287.5,     461.1,     607.1,       0.0);         ( 484687.5,
3718287.5,     459.8,     607.1,       0.0);
     ( 484712.5, 3718287.5,     459.1,     607.1,       0.0);         ( 484737.5,
3718287.5,     458.8,     607.1,       0.0);
     ( 484762.5, 3718287.5,     458.4,     607.1,       0.0);         ( 484787.5,
3718287.5,     458.0,     606.7,       0.0);
     ( 484812.5, 3718287.5,     457.5,     601.0,       0.0);         ( 484837.5,
3718287.5,     457.4,     601.0,       0.0);
     ( 484862.5, 3718287.5,     457.5,     601.0,       0.0);         ( 483412.5,
3718312.5,     486.5,     646.9,       0.0);
     ( 483437.5, 3718312.5,     488.0,     646.9,       0.0);         ( 484187.5,
3718312.5,     470.9,     607.1,       0.0);
     ( 483412.5, 3718337.5,     488.3,     646.9,       0.0);         ( 483437.5,
3718337.5,     488.9,     646.9,       0.0);
     ( 484187.5, 3718337.5,     471.3,     607.1,       0.0);         ( 483412.5,
3718412.5,     496.0,     646.9,       0.0);
     ( 483437.5, 3718412.5,     492.6,     646.9,       0.0);         ( 483412.5,
3718437.5,     499.1,     646.9,       0.0);
     ( 483437.5, 3718437.5,     495.4,     646.9,       0.0);         ( 484462.5,
3718462.5,     469.7,     607.1,       0.0);
     ( 484487.5, 3718462.5,     469.0,     607.1,       0.0);         ( 484462.5,
3718487.5,     467.0,     607.1,       0.0);
     ( 484487.5, 3718487.5,     467.3,     607.1,       0.0);

 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                   PAGE 392
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                              *** METEOROLOGICAL DAYS SELECTED FOR
PROCESSING ***
                                                                   (1=YES; 0=NO)

           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
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           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: ..\MET\LakeElsinoreADJU\ELSI_V9_ADJU\ELSI_v9.SFC
Met Version: 16216
Profile file: ..\MET\LakeElsinoreADJU\ELSI_V9_ADJU\ELSI_v9.PFL

Surface format: FREE

Profile format: FREE

Surface station no.: 3171 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN

Year: 2012 Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
12	01	01	1	01	-1.3	0.065	-9.000	-9.000	-999.	40.	18.2	0.23	2.69	1.00	0.40	78.	9.1	284.2	5.5

```
 12 01 01   1 02   -4.2  0.092 -9.000 -9.000 -999.   67.     16.0  0.23   2.69
1.00    0.90   69.    9.1  283.8    5.5
 12 01 01   1 03   -4.2  0.092 -9.000 -9.000 -999.   67.     16.0  0.23   2.69
1.00    0.90  286.    9.1  282.5    5.5
 12 01 01   1 04   -4.2  0.092 -9.000 -9.000 -999.   67.     16.0  0.23   2.69
1.00    0.90  348.    9.1  282.5    5.5
 12 01 01   1 05   -1.3  0.066 -9.000 -9.000 -999.   40.     18.2  0.23   2.69
1.00    0.40   17.    9.1  282.0    5.5
 12 01 01   1 06   -4.2  0.092 -9.000 -9.000 -999.   67.     16.0  0.23   2.69
1.00    0.90  161.    9.1  282.0    5.5
 12 01 01   1 07   -1.3  0.066 -9.000 -9.000 -999.   40.     18.2  0.23   2.69
1.00    0.40  273.    9.1  282.0    5.5
 12 01 01   1 08   -3.6  0.091 -9.000 -9.000 -999.   66.     18.3  0.23   2.69
0.54    0.90  113.    9.1  283.8    5.5
 12 01 01   1 09   39.6  0.087  0.358  0.016   40.   61.     -1.4  0.23   2.69
0.33    0.40  336.    9.1  285.9    5.5
 12 01 01   1 10  110.7  0.206  0.740  0.007  127.  225.     -6.9  0.23   2.69
0.25    1.30  158.    9.1  291.4    5.5
 12 01 01   1 11  161.7  0.105  1.203  0.005  374.   87.     -1.0  0.23   2.69
0.23    0.40   33.    9.1  297.0    5.5
 12 01 01   1 12  185.5  0.271  1.535  0.005  676.  339.     -9.3  0.23   2.69
0.22    1.80  313.    9.1  298.8    5.5
 12 01 01   1 13  183.9  0.219  1.828  0.005 1154.  247.     -4.9  0.23   2.69
0.22    1.30  250.    9.1  300.4    5.5
 12 01 01   1 14  156.6  0.266  1.869  0.005 1446.  330.    -10.4  0.23   2.69
0.23    1.80  217.    9.1  301.4    5.5
 12 01 01   1 15  104.7  0.256  1.677  0.005 1562.  311.    -13.8  0.23   2.69
0.27    1.80  248.    9.1  302.0    5.5
 12 01 01   1 16   32.7  0.319  1.147  0.005 1596.  433.    -85.9  0.23   2.69
0.36    2.70  235.    9.1  302.0    5.5
 12 01 01   1 17  -15.5  0.190 -9.000 -9.000 -999.  208.     39.6  0.23   2.69
0.63    1.80   46.    9.1  299.2    5.5
 12 01 01   1 18   -4.1  0.092 -9.000 -9.000 -999.   73.     16.2  0.23   2.69
1.00    0.90  107.    9.1  294.9    5.5
 12 01 01   1 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23   2.69
1.00  999.00  999.   -9.0  292.5    5.5
 12 01 01   1 20   -4.2  0.092 -9.000 -9.000 -999.   67.     16.1  0.23   2.69
1.00    0.90  323.    9.1  290.4    5.5
 12 01 01   1 21   -8.8  0.133 -9.000 -9.000 -999.  116.     23.2  0.23   2.69
1.00    1.30   34.    9.1  287.5    5.5
 12 01 01   1 22   -1.3  0.065 -9.000 -9.000 -999.   41.     18.1  0.23   2.69
1.00    0.40  359.    9.1  286.4    5.5
 12 01 01   1 23   -1.3  0.065 -9.000 -9.000 -999.   40.     18.1  0.23   2.69
1.00    0.40  351.    9.1  285.4    5.5
 12 01 01   1 24   -4.2  0.092 -9.000 -9.000 -999.   67.     16.0  0.23   2.69
1.00    0.90   11.    9.1  284.9    5.5
```

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
12	01	01	01	5.5	0	-999.	-99.00	284.3	99.0	-99.00	-99.00
12	01	01	01	9.1	1	78.	0.40	-999.0	99.0	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: EQUIP ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
481950.00	3715450.00	0.05584	482050.00	3715450.00	0.05716
482150.00	3715450.00	0.05808	482250.00	3715450.00	0.06004
482350.00	3715450.00	0.06175	482450.00	3715450.00	0.06274
482550.00	3715450.00	0.06418	482650.00	3715450.00	0.06589
482750.00	3715450.00	0.06782	482850.00	3715450.00	0.06990
482950.00	3715450.00	0.07154	483050.00	3715450.00	0.07349
483150.00	3715450.00	0.07515	483250.00		

3715450.00 0.07652
483350.00 3715450.00 0.07792 483450.00
3715450.00 0.07913
483550.00 3715450.00 0.08036 483650.00
3715450.00 0.08096
483750.00 3715450.00 0.08227 483850.00
3715450.00 0.08347
483950.00 3715450.00 0.08423 484050.00
3715450.00 0.08463
484150.00 3715450.00 0.08461 484250.00
3715450.00 0.08486
484350.00 3715450.00 0.08553 484450.00
3715450.00 0.08581
481950.00 3715550.00 0.05740 482050.00
3715550.00 0.05900
482150.00 3715550.00 0.06008 482250.00
3715550.00 0.06199
482350.00 3715550.00 0.06328 482550.00
3715550.00 0.06671
482650.00 3715550.00 0.06857 482750.00
3715550.00 0.07035
482850.00 3715550.00 0.07227 482950.00
3715550.00 0.07456
483050.00 3715550.00 0.07688 483150.00
3715550.00 0.07882
483250.00 3715550.00 0.08052 483350.00
3715550.00 0.08193
483450.00 3715550.00 0.08323 483550.00
3715550.00 0.08462
483650.00 3715550.00 0.08577 483750.00
3715550.00 0.08673
483850.00 3715550.00 0.08843 483950.00
3715550.00 0.08932
484050.00 3715550.00 0.08998 484250.00
3715550.00 0.09018
484350.00 3715550.00 0.08988 484450.00
3715550.00 0.09005
484550.00 3715550.00 0.09060 484950.00
3715550.00 0.09761
485050.00 3715550.00 0.09638 481950.00
3715650.00 0.05913
482050.00 3715650.00 0.06078 482150.00
3715650.00 0.06255
482250.00 3715650.00 0.06399 482350.00
3715650.00 0.06541
482450.00 3715650.00 0.06745 482650.00
3715650.00 0.07142
482750.00 3715650.00 0.07380 482850.00

3715650.00 0.07572
482950.00 3715650.00 0.07739 483050.00
3715650.00 0.07996
483150.00 3715650.00 0.08262 483250.00
3715650.00 0.08491
483350.00 3715650.00 0.08670 483450.00
3715650.00 0.08809
483550.00 3715650.00 0.08975 483650.00
3715650.00 0.09050
483750.00 3715650.00 0.09250 483850.00
3715650.00 0.09288
483950.00 3715650.00 0.09487 484050.00
3715650.00 0.09475
484150.00 3715650.00 0.09503 484350.00
3715650.00 0.09615
484450.00 3715650.00 0.09517 484550.00
3715650.00 0.09540
484650.00 3715650.00 0.09523 484750.00
3715650.00 0.09522

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: EQUIP ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC

```
         484950.00    3715650.00        0.09506                    485050.00
3715650.00        0.09393
         481950.00    3715750.00        0.06082                    482050.00
3715750.00        0.06266
         482150.00    3715750.00        0.06418                    482250.00
3715750.00        0.06584
         482350.00    3715750.00        0.06806                    482450.00
3715750.00        0.07021
         482550.00    3715750.00        0.07273                    482750.00
3715750.00        0.07667
         482850.00    3715750.00        0.08004                    482950.00
3715750.00        0.08166
         483050.00    3715750.00        0.08436                    483150.00
3715750.00        0.08732
         483250.00    3715750.00        0.08943                    483350.00
3715750.00        0.09174
         483450.00    3715750.00        0.09314                    483550.00
3715750.00        0.09530
         483650.00    3715750.00        0.09641                    483750.00
3715750.00        0.09814
         483850.00    3715750.00        0.09930                    483950.00
3715750.00        0.10055
         484050.00    3715750.00        0.10170                    484150.00
3715750.00        0.10149
         484250.00    3715750.00        0.10103                    484550.00
3715750.00        0.10060
         484650.00    3715750.00        0.10012                    484750.00
3715750.00        0.09965
         484850.00    3715750.00        0.09862                    484950.00
3715750.00        0.09772
         485050.00    3715750.00        0.09657                    481950.00
3715850.00        0.06275
         482050.00    3715850.00        0.06480                    482150.00
3715850.00        0.06623
         482250.00    3715850.00        0.06872                    482350.00
3715850.00        0.07076
         482450.00    3715850.00        0.07329                    482550.00
3715850.00        0.07560
         482650.00    3715850.00        0.07821                    482750.00
3715850.00        0.08099
         482850.00    3715850.00        0.08365                    482950.00
3715850.00        0.08625
         483050.00    3715850.00        0.08855                    483150.00
3715850.00        0.09204
         483350.00    3715850.00        0.09717                    483450.00
3715850.00        0.09919
         483550.00    3715850.00        0.10138                    483650.00
3715850.00        0.10303
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         483750.00    3715850.00        0.10553                        483850.00
3715850.00        0.10678
         483950.00    3715850.00        0.10739                        484050.00
3715850.00        0.10904
         484150.00    3715850.00        0.10892                        484250.00
3715850.00        0.10841
         484550.00    3715850.00        0.10782                        484650.00
3715850.00        0.10647
         484750.00    3715850.00        0.10537                        484850.00
3715850.00        0.10413
         485150.00    3715850.00        0.10006                        485250.00
3715850.00        0.09969
         481950.00    3715950.00        0.06467                        482050.00
3715950.00        0.06644
         482150.00    3715950.00        0.06877                        482250.00
3715950.00        0.07142
         482350.00    3715950.00        0.07376                        482450.00
3715950.00        0.07616
         482550.00    3715950.00        0.07904                        482650.00
3715950.00        0.08159
         482750.00    3715950.00        0.08431                        482850.00
3715950.00        0.08753
         482950.00    3715950.00        0.09117                        483050.00
3715950.00        0.09433
         483350.00    3715950.00        0.10331                        483450.00
3715950.00        0.10623
         483550.00    3715950.00        0.10816                        483650.00
3715950.00        0.11037
         483750.00    3715950.00        0.11227                        483850.00
3715950.00        0.11509
         483950.00    3715950.00        0.11519                        484050.00
3715950.00        0.11700
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 396
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: EQUIP    ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
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L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
484150.00	3715950.00	0.11771	484250.00	3715950.00	0.11704
484850.00	3715950.00	0.11075	485150.00	3715950.00	0.10593
485250.00	3715950.00	0.10591	481950.00	3716050.00	0.06666
482050.00	3716050.00	0.06878	482150.00	3716050.00	0.07130
482250.00	3716050.00	0.07402	482350.00	3716050.00	0.07661
482450.00	3716050.00	0.07940	482550.00	3716050.00	0.08251
482650.00	3716050.00	0.08557	482750.00	3716050.00	0.08839
482850.00	3716050.00	0.09233	482950.00	3716050.00	0.09577
483050.00	3716050.00	0.09945	483150.00	3716050.00	0.10272
483350.00	3716050.00	0.11009	483450.00	3716050.00	0.11363
483550.00	3716050.00	0.11629	483650.00	3716050.00	0.11835
483750.00	3716050.00	0.12166	483850.00	3716050.00	0.12402
483950.00	3716050.00	0.12525	484050.00	3716050.00	0.12600
484150.00	3716050.00	0.12745	484250.00	3716050.00	0.12655
484450.00	3716050.00	0.12434	484750.00	3716050.00	0.12030
484850.00	3716050.00	0.11826	485050.00	3716050.00	0.11407
485150.00	3716050.00	0.11220	485250.00	3716050.00	0.11126
485350.00	3716050.00	0.10752	485450.00		

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3716050.00        0.10564
         481950.00    3716150.00        0.06876                        482050.00
3716150.00        0.07131
         482150.00    3716150.00        0.07394                        482250.00
3716150.00        0.07680
         482350.00    3716150.00        0.07986                        482450.00
3716150.00        0.08285
         482550.00    3716150.00        0.08606                        482650.00
3716150.00        0.08962
         482750.00    3716150.00        0.09319                        482850.00
3716150.00        0.09687
         482950.00    3716150.00        0.10125                        483050.00
3716150.00        0.10553
         483150.00    3716150.00        0.10923                        483450.00
3716150.00        0.12201
         483550.00    3716150.00        0.12552                        483650.00
3716150.00        0.12815
         483750.00    3716150.00        0.13183                        483850.00
3716150.00        0.13443
         483950.00    3716150.00        0.13650                        484150.00
3716150.00        0.13851
         484250.00    3716150.00        0.13785                        484350.00
3716150.00        0.13723
         484450.00    3716150.00        0.13537                        484850.00
3716150.00        0.12687
         484950.00    3716150.00        0.12421                        485150.00
3716150.00        0.11877
         485250.00    3716150.00        0.11574                        485350.00
3716150.00        0.11287
         485450.00    3716150.00        0.11007                        481950.00
3716250.00        0.07084
         482050.00    3716250.00        0.07385                        482150.00
3716250.00        0.07685
         482250.00    3716250.00        0.07986                        482350.00
3716250.00        0.08300
         482450.00    3716250.00        0.08645                        482550.00
3716250.00        0.09009
         482650.00    3716250.00        0.09393                        482750.00
3716250.00        0.09805
         482850.00    3716250.00        0.10257                        482950.00
3716250.00        0.10721
         483050.00    3716250.00        0.11187                        483150.00
3716250.00        0.11676
         483450.00    3716250.00        0.13124                        483550.00
3716250.00        0.13585
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: EQUIP ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
483650.00	3716250.00	0.13972	483750.00	3716250.00	0.14354
483850.00	3716250.00	0.14672	483950.00	3716250.00	0.14883
484150.00	3716250.00	0.15322	484850.00	3716250.00	0.13746
484950.00	3716250.00	0.13438	485050.00	3716250.00	0.12967
485150.00	3716250.00	0.12616	485250.00	3716250.00	0.12273
485350.00	3716250.00	0.11929	481950.00	3716350.00	0.07318
482050.00	3716350.00	0.07650	482150.00	3716350.00	0.07978
482250.00	3716350.00	0.08360	482350.00	3716350.00	0.08675
482450.00	3716350.00	0.09033	482550.00	3716350.00	0.09437
482650.00	3716350.00	0.09875	482750.00	3716350.00	0.10348
482850.00	3716350.00	0.10828	482950.00	3716350.00	0.11378

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         483050.00    3716350.00        0.11932                    483150.00
3716350.00        0.12505
         483450.00    3716350.00        0.14242                    483550.00
3716350.00        0.14793
         483650.00    3716350.00        0.15279                    483750.00
3716350.00        0.15761
         483850.00    3716350.00        0.16157                    483950.00
3716350.00        0.16424
         484850.00    3716350.00        0.14849                    484950.00
3716350.00        0.14572
         481950.00    3716450.00        0.07575                    482550.00
3716450.00        0.09919
         482650.00    3716450.00        0.10405                    482750.00
3716450.00        0.10926
         482850.00    3716450.00        0.11436                    482950.00
3716450.00        0.12118
         483050.00    3716450.00        0.12805                    483150.00
3716450.00        0.13464
         483450.00    3716450.00        0.15572                    483550.00
3716450.00        0.16239
         483650.00    3716450.00        0.16841                    483750.00
3716450.00        0.17398
         483850.00    3716450.00        0.17927                    483950.00
3716450.00        0.18281
         484050.00    3716450.00        0.18503                    485150.00
3716450.00        0.14562
         482650.00    3716550.00        0.11036                    482750.00
3716550.00        0.11581
         482850.00    3716550.00        0.12156                    482950.00
3716550.00        0.13005
         483450.00    3716550.00        0.17102                    483550.00
3716550.00        0.18000
         483650.00    3716550.00        0.18733                    483750.00
3716550.00        0.19525
         483850.00    3716550.00        0.20148                    483950.00
3716550.00        0.20632
         484050.00    3716550.00        0.20891                    484950.00
3716550.00        0.16833
         485050.00    3716550.00        0.16376                    485150.00
3716550.00        0.15777
         482850.00    3716650.00        0.12932                    482950.00
3716650.00        0.13844
         483450.00    3716650.00        0.18781                    483550.00
3716650.00        0.19999
         483650.00    3716650.00        0.21130                    483750.00
3716650.00        0.22196
         483850.00    3716650.00        0.22910                    483950.00
3716650.00        0.23592
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         484050.00    3716650.00        0.23940                        485250.00
3716650.00        0.15617
         481950.00    3716750.00        0.08111                        482650.00
3716750.00        0.12294
         482750.00    3716750.00        0.13080                        482850.00
3716750.00        0.13775
         482950.00    3716750.00        0.14847                        483050.00
3716750.00        0.15909
         483150.00    3716750.00        0.17201                        483450.00
3716750.00        0.20954
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 398
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: EQUIP    ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
         483550.00    3716750.00        0.22556                        483650.00
3716750.00        0.24348
         483750.00    3716750.00        0.25697                        483850.00
3716750.00        0.26500
         483950.00    3716750.00        0.27352                        484050.00
3716750.00        0.27822
         485150.00    3716750.00        0.17576                        485250.00
3716750.00        0.16434
         485350.00    3716750.00        0.15391                        485450.00
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3716750.00        0.14381
         485550.00    3716750.00        0.13554                    485650.00
3716750.00        0.12557
         481950.00    3716850.00        0.08315                    482050.00
3716850.00        0.08756
         482150.00    3716850.00        0.09231                    482650.00
3716850.00        0.12928
         482750.00    3716850.00        0.13793                    482850.00
3716850.00        0.14738
         482950.00    3716850.00        0.15971                    483050.00
3716850.00        0.17386
         483150.00    3716850.00        0.18710                    483250.00
3716850.00        0.20083
         484050.00    3716850.00        0.33475                    485550.00
3716850.00        0.13904
         485650.00    3716850.00        0.12857                    481950.00
3716950.00        0.08500
         482050.00    3716950.00        0.08947                    482150.00
3716950.00        0.09481
         482250.00    3716950.00        0.10077                    482350.00
3716950.00        0.10736
         482450.00    3716950.00        0.11486                    483150.00
3716950.00        0.20330
         483250.00    3716950.00        0.22161                    485550.00
3716950.00        0.14150
         485650.00    3716950.00        0.13103                    481950.00
3717050.00        0.08676
         482050.00    3717050.00        0.09159                    482150.00
3717050.00        0.09726
         482250.00    3717050.00        0.10370                    482350.00
3717050.00        0.11057
         482450.00    3717050.00        0.11846                    482550.00
3717050.00        0.12729
         482650.00    3717050.00        0.13763                    482850.00
3717050.00        0.16380
         482950.00    3717050.00        0.18182                    483250.00
3717050.00        0.24762
         485350.00    3717050.00        0.17125                    485450.00
3717050.00        0.15764
         485550.00    3717050.00        0.14431                    485650.00
3717050.00        0.13308
         486250.00    3717050.00        0.08218                    481950.00
3717150.00        0.08798
         482050.00    3717150.00        0.09367                    482150.00
3717150.00        0.09996
         482250.00    3717150.00        0.10598                    482350.00
3717150.00        0.11342
         482450.00    3717150.00        0.12220                    482550.00
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3717150.00        0.13125
         482650.00    3717150.00        0.14304                        482750.00
3717150.00        0.15625
         482850.00    3717150.00        0.17114                        482950.00
3717150.00        0.18985
         483050.00    3717150.00        0.21382                        485350.00
3717150.00        0.17616
         485450.00    3717150.00        0.16028                        485550.00
3717150.00        0.14593
         485650.00    3717150.00        0.13437                        481950.00
3717250.00        0.08971
         482050.00    3717250.00        0.09507                        482150.00
3717250.00        0.10131
         482250.00    3717250.00        0.10911                        482350.00
3717250.00        0.11711
         482450.00    3717250.00        0.12525                        482550.00
3717250.00        0.13546
         482650.00    3717250.00        0.14781                        482750.00
3717250.00        0.16278
         482850.00    3717250.00        0.17943                        482950.00
3717250.00        0.19910
         483050.00    3717250.00        0.22499                        483150.00
3717250.00        0.25769
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***        09:53:15

                                    PAGE 399
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: EQUIP    ***
                                    INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                   L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                   L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                   L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                               *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                            ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **
```

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
483250.00	3717250.00	0.29755	483350.00	3717250.00	0.34712
483450.00	3717250.00	0.40766	483850.00	3717250.00	0.80740
483950.00	3717250.00	0.90589	486150.00	3717250.00	0.09784
486250.00	3717250.00	0.09269	481950.00	3717350.00	0.09119
482050.00	3717350.00	0.09664	482150.00	3717350.00	0.10282
482250.00	3717350.00	0.11047	482350.00	3717350.00	0.11897
482450.00	3717350.00	0.12851	482550.00	3717350.00	0.13911
482650.00	3717350.00	0.15246	482750.00	3717350.00	0.16850
482850.00	3717350.00	0.18680	482950.00	3717350.00	0.20854
483050.00	3717350.00	0.23738	483150.00	3717350.00	0.27421
483250.00	3717350.00	0.32160	483350.00	3717350.00	0.38406
483450.00	3717350.00	0.46568	483850.00	3717350.00	1.17542
483950.00	3717350.00	1.38278	484050.00	3717350.00	1.46426
484650.00	3717350.00	0.52773	484750.00	3717350.00	0.43414
486050.00	3717350.00	0.10288	486150.00	3717350.00	0.09716
486250.00	3717350.00	0.09199	481950.00	3717450.00	0.09261
482050.00	3717450.00	0.09831	482150.00	3717450.00	0.10439
482250.00	3717450.00	0.11244	482350.00	3717450.00	0.12075
482450.00	3717450.00	0.13067	482750.00	3717450.00	0.17383
482850.00	3717450.00	0.19336	482950.00	3717450.00	0.21728
483050.00	3717450.00	0.24857	483150.00	3717450.00	0.28984
483250.00	3717450.00	0.34543	483350.00	3717450.00	0.42174

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         483450.00    3717450.00        0.53015                        483550.00
3717450.00        0.68967
         483850.00    3717450.00        1.83775                        483950.00
3717450.00        2.44564
         484050.00    3717450.00        2.62951                        484550.00
3717450.00        0.74491
         484650.00    3717450.00        0.57992                        484750.00
3717450.00        0.46486
         481950.00    3717550.00        0.09403                        482050.00
3717550.00        0.10001
         482150.00    3717550.00        0.10671                        482250.00
3717550.00        0.11403
         482350.00    3717550.00        0.12290                        482450.00
3717550.00        0.13311
         482750.00    3717550.00        0.17747                        482850.00
3717550.00        0.19821
         482950.00    3717550.00        0.22373                        483050.00
3717550.00        0.25793
         483250.00    3717550.00        0.36655                        483350.00
3717550.00        0.45578
         483450.00    3717550.00        0.59282                        483550.00
3717550.00        0.80666
         483950.00    3717550.00        6.02390                        484050.00
3717550.00        6.54357
         485850.00    3717550.00        0.11843                        485950.00
3717550.00        0.11053
         481950.00    3717650.00        0.09157                        482050.00
3717650.00        0.10069
         482150.00    3717650.00        0.10768                        482250.00
3717650.00        0.11544
         482350.00    3717650.00        0.12450                        482450.00
3717650.00        0.13482
         482550.00    3717650.00        0.14745                        482650.00
3717650.00        0.16190
         482750.00    3717650.00        0.18004                        482850.00
3717650.00        0.20159
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                        ***        09:53:15

                                   PAGE 400
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: EQUIP    ***
                                   INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
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L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
482950.00	3717650.00	0.22908	483350.00	3717650.00	0.48196
484550.00	3717650.00	0.89622	484650.00	3717650.00	0.65688
484750.00	3717650.00	0.50625	484850.00	3717650.00	0.40509
485150.00	3717650.00	0.24427	485450.00	3717650.00	0.16821
485550.00	3717650.00	0.15301	482250.00	3717750.00	0.11574
482350.00	3717750.00	0.12100	482450.00	3717750.00	0.13067
482550.00	3717750.00	0.14370	482650.00	3717750.00	0.16045
482750.00	3717750.00	0.18151	482850.00	3717750.00	0.20356
482950.00	3717750.00	0.23222	484550.00	3717750.00	0.95376
484650.00	3717750.00	0.68585	484750.00	3717750.00	0.52275
484850.00	3717750.00	0.41526	485150.00	3717750.00	0.24674
485450.00	3717750.00	0.16924	485550.00	3717750.00	0.15373
485650.00	3717750.00	0.14082	485750.00	3717750.00	0.12918
485850.00	3717750.00	0.11937	485950.00	3717750.00	0.11112
486050.00	3717750.00	0.10401	482250.00	3717850.00	0.11162
482650.00	3717850.00	0.15535	482750.00		

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3717850.00        0.17761
         482850.00    3717850.00        0.20396                    482950.00
3717850.00        0.23193
         483350.00    3717850.00        0.49508                    483450.00
3717850.00        0.66058
         484550.00    3717850.00        1.00939                    484650.00
3717850.00        0.71821
         484750.00    3717850.00        0.54265                    484850.00
3717850.00        0.42813
         484950.00    3717850.00        0.34928                    485150.00
3717850.00        0.25033
         485250.00    3717850.00        0.21771                    485450.00
3717850.00        0.17225
         485550.00    3717850.00        0.15599                    485650.00
3717850.00        0.14226
         485750.00    3717850.00        0.13024                    485850.00
3717850.00        0.12066
         485950.00    3717850.00        0.11257                    486050.00
3717850.00        0.10490
         481950.00    3717950.00        0.07836                    482250.00
3717950.00        0.10754
         482350.00    3717950.00        0.10769                    482750.00
3717950.00        0.17022
         483350.00    3717950.00        0.48119                    483450.00
3717950.00        0.63478
         483550.00    3717950.00        0.88693                    484550.00
3717950.00        1.04736
         484650.00    3717950.00        0.74782                    484750.00
3717950.00        0.56363
         484850.00    3717950.00        0.44324                    484950.00
3717950.00        0.36009
         485350.00    3717950.00        0.19587                    485450.00
3717950.00        0.17435
         485550.00    3717950.00        0.15833                    485650.00
3717950.00        0.14346
         485750.00    3717950.00        0.13135                    485850.00
3717950.00        0.12190
         485950.00    3717950.00        0.11369                    486050.00
3717950.00        0.10608
         481950.00    3718050.00        0.07841                    482050.00
3718050.00        0.08132
         482750.00    3718050.00        0.16665                    482850.00
3718050.00        0.19201
         482950.00    3718050.00        0.21470                    483050.00
3718050.00        0.25136
         483150.00    3718050.00        0.29459                    483250.00
3718050.00        0.35480
         483350.00    3718050.00        0.45006                    483450.00
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3718050.00 0.58614

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: EQUIP ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
483550.00	3718050.00	0.80744	483650.00	3718050.00	1.17327
484550.00	3718050.00	1.03602	484650.00	3718050.00	0.75802
485450.00	3718050.00	0.17798	485550.00	3718050.00	0.16008
485650.00	3718050.00	0.14491	485750.00	3718050.00	0.13246
485850.00	3718050.00	0.12240	485950.00	3718050.00	0.11394
486050.00	3718050.00	0.10642	481950.00	3718150.00	0.08076
482050.00	3718150.00	0.08215	482150.00	3718150.00	0.08540
482250.00	3718150.00	0.09254	482350.00	3718150.00	0.10131
482650.00	3718150.00	0.14323	482750.00	3718150.00	0.16237

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         482850.00    3718150.00        0.17216                    482950.00
3718150.00        0.19391
         483050.00    3718150.00        0.22504                    483150.00
3718150.00        0.27099
         483350.00    3718150.00        0.41517                    483450.00
3718150.00        0.53143
         483550.00    3718150.00        0.70260                    483650.00
3718150.00        0.95478
         484550.00    3718150.00        0.95685                    484650.00
3718150.00        0.73336
         485250.00    3718150.00        0.23078                    485550.00
3718150.00        0.16190
         485650.00    3718150.00        0.14672                    485750.00
3718150.00        0.13410
         481950.00    3718250.00        0.08204                    482050.00
3718250.00        0.08406
         482150.00    3718250.00        0.08605                    482250.00
3718250.00        0.08998
         482350.00    3718250.00        0.10026                    482450.00
3718250.00        0.11216
         482550.00    3718250.00        0.12338                    482650.00
3718250.00        0.13939
         482750.00    3718250.00        0.15392                    482850.00
3718250.00        0.15113
         482950.00    3718250.00        0.16550                    483250.00
3718250.00        0.29521
         484550.00    3718250.00        0.82807                    484650.00
3718250.00        0.67330
         484750.00    3718250.00        0.54853                    484850.00
3718250.00        0.45099
         485150.00    3718250.00        0.27043                    485250.00
3718250.00        0.23451
         485650.00    3718250.00        0.14921                    481950.00
3718350.00        0.07775
         482050.00    3718350.00        0.08240                    482150.00
3718350.00        0.08486
         482250.00    3718350.00        0.08763                    482350.00
3718350.00        0.09716
         482450.00    3718350.00        0.10963                    482550.00
3718350.00        0.11998
         482650.00    3718350.00        0.13256                    482750.00
3718350.00        0.14656
         483150.00    3718350.00        0.20937                    483450.00
3718350.00        0.42550
         485250.00    3718350.00        0.23587                    485350.00
3718350.00        0.20809
         485550.00    3718350.00        0.16584                    485650.00
3718350.00        0.15180
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         486150.00    3718350.00        0.10122                        486250.00
3718350.00        0.09507
         481950.00    3718450.00        0.07512                        482050.00
3718450.00        0.08029
         482150.00    3718450.00        0.08281                        482250.00
3718450.00        0.08589
         482350.00    3718450.00        0.09359                        482450.00
3718450.00        0.10449
         482550.00    3718450.00        0.11607                        482650.00
3718450.00        0.12760
         482750.00    3718450.00        0.14089                        482850.00
3718450.00        0.14913
         483350.00    3718450.00        0.30912                        484450.00
3718450.00        0.60327
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 402
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: EQUIP    ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                     *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
         485150.00    3718450.00        0.26606                        485250.00
3718450.00        0.23413
         485350.00    3718450.00        0.20846                        485750.00
3718450.00        0.13901
         485850.00    3718450.00        0.12705                        485950.00
```

3718450.00 0.11711
486050.00 3718450.00 0.10949 481950.00
3718550.00 0.07229
482050.00 3718550.00 0.07683 482150.00
3718550.00 0.08195
482250.00 3718550.00 0.08633 482350.00
3718550.00 0.09225
482450.00 3718550.00 0.10222 482550.00
3718550.00 0.11182
482650.00 3718550.00 0.12164 482750.00
3718550.00 0.13767
482850.00 3718550.00 0.14958 482950.00
3718550.00 0.16131
483550.00 3718550.00 0.34578 484650.00
3718550.00 0.42765
484750.00 3718550.00 0.39337 484850.00
3718550.00 0.35715
485850.00 3718550.00 0.12838 485950.00
3718550.00 0.11896
482050.00 3718650.00 0.07411 482150.00
3718650.00 0.07958
482250.00 3718650.00 0.08591 482350.00
3718650.00 0.09328
482450.00 3718650.00 0.09986 482550.00
3718650.00 0.10857
482650.00 3718650.00 0.12020 482750.00
3718650.00 0.13324
482850.00 3718650.00 0.14887 482950.00
3718650.00 0.16586
485150.00 3718650.00 0.24336 485450.00
3718650.00 0.18318
485550.00 3718650.00 0.16662 485650.00
3718650.00 0.15177
485850.00 3718650.00 0.13013 485950.00
3718650.00 0.11935
486050.00 3718650.00 0.11188 482050.00
3718750.00 0.07291
482150.00 3718750.00 0.07836 482250.00
3718750.00 0.08333
482350.00 3718750.00 0.09048 482450.00
3718750.00 0.09858
482550.00 3718750.00 0.10771 482650.00
3718750.00 0.11788
482750.00 3718750.00 0.13131 482850.00
3718750.00 0.14629
482950.00 3718750.00 0.16079 483050.00
3718750.00 0.17775
484950.00 3718750.00 0.26499 485050.00

```
3718750.00        0.24745
         485150.00    3718750.00        0.22962                        485850.00
3718750.00        0.13042
         485950.00    3718750.00        0.12049                        486050.00
3718750.00        0.11212
         482350.00    3718850.00        0.08939                        482450.00
3718850.00        0.09742
         482550.00    3718850.00        0.10616                        482650.00
3718850.00        0.11637
         482750.00    3718850.00        0.12899                        482850.00
3718850.00        0.14231
         482950.00    3718850.00        0.15446                        483050.00
3718850.00        0.16854
         483150.00    3718850.00        0.17744                        484150.00
3718850.00        0.25915
         484250.00    3718850.00        0.26964                        485350.00
3718850.00        0.18532
         485450.00    3718850.00        0.17197                        485750.00
3718850.00        0.13847
         485850.00    3718850.00        0.12889                        485950.00
3718850.00        0.12075
         486050.00    3718850.00        0.11203                        482450.00
3718950.00        0.09636
         482550.00    3718950.00        0.10537                        482650.00
3718950.00        0.11446
         482750.00    3718950.00        0.12579                        482850.00
3718950.00        0.13654
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***        09:53:15

                                    PAGE 403
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: EQUIP    ***
                                    INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***
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** CONC OF PM_10 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
482950.00	3718950.00	0.14738	483050.00	3718950.00	0.15745
483150.00	3718950.00	0.16751	483250.00	3718950.00	0.17256
485750.00	3718950.00	0.13720	485850.00	3718950.00	0.12799
485950.00	3718950.00	0.11923	486050.00	3718950.00	0.11217
482250.00	3719050.00	0.08084	482350.00	3719050.00	0.08808
482450.00	3719050.00	0.09560	482550.00	3719050.00	0.10367
482650.00	3719050.00	0.11267	482850.00	3719050.00	0.13036
482950.00	3719050.00	0.13863	483050.00	3719050.00	0.14711
483150.00	3719050.00	0.15404	483250.00	3719050.00	0.15883
483350.00	3719050.00	0.16073	483450.00	3719050.00	0.16230
483550.00	3719050.00	0.16334	485250.00	3719050.00	0.17257
485450.00	3719050.00	0.15627	485550.00	3719050.00	0.14786
485650.00	3719050.00	0.14030	485750.00	3719050.00	0.13309
482350.00	3719150.00	0.08787	482650.00	3719150.00	0.10926
482850.00	3719150.00	0.12440	483050.00	3719150.00	0.13732
483150.00	3719150.00	0.14188	483250.00	3719150.00	0.14545
483350.00	3719150.00	0.14739	483450.00	3719150.00	0.14874
483550.00	3719150.00	0.14941	485250.00	3719150.00	0.16120
485550.00	3719150.00	0.14134	485650.00	3719150.00	0.13503
485950.00	3719150.00	0.11560	484550.00	3719250.00	0.16843

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         484750.00    3719250.00        0.16534                        484850.00
3719250.00        0.16322
         484750.00    3719350.00        0.15111                        484850.00
3719350.00        0.14930
         484950.00    3719350.00        0.14708                        485050.00
3719350.00        0.14472
         485150.00    3719350.00        0.14195                        484250.00
3719450.00        0.13860
         484350.00    3719450.00        0.14137                        484450.00
3719450.00        0.14193
         484550.00    3719450.00        0.14130                        484650.00
3719450.00        0.14017
         484750.00    3719450.00        0.13897                        484850.00
3719450.00        0.13759
         484950.00    3719450.00        0.13614                        485050.00
3719450.00        0.13435
         485150.00    3719450.00        0.13192                        485250.00
3719450.00        0.12963
         485350.00    3719450.00        0.12708                        485450.00
3719450.00        0.12382
         485550.00    3719450.00        0.12074                        484250.00
3719550.00        0.12585
         484350.00    3719550.00        0.12870                        484450.00
3719550.00        0.13097
         484550.00    3719550.00        0.13070                        484650.00
3719550.00        0.12992
         484750.00    3719550.00        0.12871                        484850.00
3719550.00        0.12763
         484950.00    3719550.00        0.12646                        485050.00
3719550.00        0.12467
         485150.00    3719550.00        0.12304                        485250.00
3719550.00        0.12096
         485350.00    3719550.00        0.11949                        485450.00
3719550.00        0.11695
         485550.00    3719550.00        0.11431                        484450.00
3719850.00        0.10610
         484550.00    3719850.00        0.10649                        484650.00
3719850.00        0.10597
         484350.00    3719950.00        0.09822                        484450.00
3719950.00        0.09826
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 404
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
```

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: EQUIP ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
484550.00	3719950.00	0.09848	484650.00	3719950.00	0.09985
483837.50	3717212.50	0.71078	483862.50	3717212.50	0.73029
483887.50	3717212.50	0.75231	483412.50	3717237.50	0.37754
483812.50	3717237.50	0.73931	483837.50	3717237.50	0.76474
483862.50	3717237.50	0.78942	483887.50	3717237.50	0.81538
483912.50	3717237.50	0.83795	483937.50	3717237.50	0.85744
483412.50	3717262.50	0.38916	483437.50	3717262.50	0.40587
483462.50	3717262.50	0.42337	483812.50	3717262.50	0.79339
483837.50	3717262.50	0.82481	483862.50	3717262.50	0.85543
483887.50	3717262.50	0.88746	483912.50	3717262.50	0.91389
483937.50	3717262.50	0.93732	483962.50	3717262.50	0.95933
483987.50	3717262.50	0.97568	483412.50	3717287.50	0.40103
483437.50	3717287.50	0.41906	483462.50	3717287.50	0.43822
483487.50	3717287.50	0.45847	483812.50		

3717287.50 0.86025
483837.50 3717287.50 0.89711 483862.50
3717287.50 0.93372
483887.50 3717287.50 0.97119 483912.50
3717287.50 1.00440
483937.50 3717287.50 1.03336 483962.50
3717287.50 1.05884
483987.50 3717287.50 1.07859 484012.50
3717287.50 1.09211
483412.50 3717312.50 0.41346 483437.50
3717312.50 0.43286
483462.50 3717312.50 0.45356 483487.50
3717312.50 0.47570
483512.50 3717312.50 0.49938 483787.50
3717312.50 0.89579
483812.50 3717312.50 0.94067 483837.50
3717312.50 0.98579
483862.50 3717312.50 1.03024 483887.50
3717312.50 1.07317
483912.50 3717312.50 1.11284 483937.50
3717312.50 1.14756
483962.50 3717312.50 1.17771 483987.50
3717312.50 1.20124
484012.50 3717312.50 1.21721 484037.50
3717312.50 1.22513
484562.50 3717312.50 0.59873 484587.50
3717312.50 0.57059
484612.50 3717312.50 0.54370 484637.50
3717312.50 0.51818
484662.50 3717312.50 0.49382 484687.50
3717312.50 0.47087
484712.50 3717312.50 0.44952 484737.50
3717312.50 0.42983
484762.50 3717312.50 0.41120 483412.50
3717337.50 0.42622
483437.50 3717337.50 0.44721 483462.50
3717337.50 0.46957
483487.50 3717337.50 0.49390 483512.50
3717337.50 0.52006
483537.50 3717337.50 0.54905 483787.50
3717337.50 0.97678
483812.50 3717337.50 1.03291 483837.50
3717337.50 1.08818
483862.50 3717337.50 1.14256 483887.50
3717337.50 1.19487
483912.50 3717337.50 1.24305 483937.50
3717337.50 1.28373
483962.50 3717337.50 1.32010 483987.50

3717337.50 1.34881
484012.50 3717337.50 1.36767 484037.50
3717337.50 1.37651
484562.50 3717337.50 0.62156 484587.50
3717337.50 0.59066

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: EQUIP ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
484612.50	3717337.50	0.56144	484637.50	3717337.50	0.53373
484662.50	3717337.50	0.50763	484687.50	3717337.50	0.48328
484712.50	3717337.50	0.46056	484737.50	3717337.50	0.43972
484762.50	3717337.50	0.41995	483412.50	3717362.50	0.43897
483437.50	3717362.50	0.46144	483462.50	3717362.50	0.48602
483487.50	3717362.50	0.51274	483512.50	3717362.50	0.54170
483537.50	3717362.50	0.57408	483787.50	3717362.50	1.06672

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         483812.50    3717362.50        1.13660                    483837.50
3717362.50        1.20542
         483862.50    3717362.50        1.27375                    483887.50
3717362.50        1.33912
         483912.50    3717362.50        1.39869                    483937.50
3717362.50        1.45002
         483962.50    3717362.50        1.49203                    483987.50
3717362.50        1.52754
         484012.50    3717362.50        1.55048                    484037.50
3717362.50        1.56029
         484562.50    3717362.50        0.64418                    484587.50
3717362.50        0.61041
         484612.50    3717362.50        0.57875                    484637.50
3717362.50        0.54901
         484662.50    3717362.50        0.52112                    484687.50
3717362.50        0.49484
         484712.50    3717362.50        0.47100                    484737.50
3717362.50        0.44895
         484762.50    3717362.50        0.42813                    484787.50
3717362.50        0.40835
         483412.50    3717387.50        0.45142                    483437.50
3717387.50        0.47610
         483462.50    3717387.50        0.50297                    483487.50
3717387.50        0.53206
         483512.50    3717387.50        0.56396                    483537.50
3717387.50        0.59938
         483562.50    3717387.50        0.63771                    483787.50
3717387.50        1.16753
         483812.50    3717387.50        1.25257                    483837.50
3717387.50        1.33895
         483862.50    3717387.50        1.42676                    483887.50
3717387.50        1.50994
         483912.50    3717387.50        1.58539                    483937.50
3717387.50        1.65028
         483962.50    3717387.50        1.70353                    483987.50
3717387.50        1.74717
         484012.50    3717387.50        1.77500                    484037.50
3717387.50        1.78593
         484062.50    3717387.50        1.77986                    484562.50
3717387.50        0.66665
         484587.50    3717387.50        0.62989                    484612.50
3717387.50        0.59571
         484637.50    3717387.50        0.56386                    484662.50
3717387.50        0.53422
         484687.50    3717387.50        0.50666                    484712.50
3717387.50        0.48127
         484737.50    3717387.50        0.45767                    484762.50
3717387.50        0.43561
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         484787.50    3717387.50        0.41487                        483412.50
3717412.50        0.46448
         483437.50    3717412.50        0.49116                        483462.50
3717412.50        0.52044
         483487.50    3717412.50        0.55226                        483512.50
3717412.50        0.58711
         483537.50    3717412.50        0.62556                        483562.50
3717412.50        0.66794
         483787.50    3717412.50        1.28112                        483812.50
3717412.50        1.38241
         483837.50    3717412.50        1.48970                        483862.50
3717412.50        1.60221
         483887.50    3717412.50        1.71050                        483912.50
3717412.50        1.80919
         483937.50    3717412.50        1.89501                        483962.50
3717412.50        1.96604
         483987.50    3717412.50        2.02107                        484012.50
3717412.50        2.05493
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 406
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: EQUIP    ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
         484037.50    3717412.50        2.06657                        484062.50
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3717412.50 2.05437
484487.50 3717412.50 0.82901 484512.50
3717412.50 0.77861
484537.50 3717412.50 0.73195 484562.50
3717412.50 0.68881
484587.50 3717412.50 0.64898 484612.50
3717412.50 0.61221
484637.50 3717412.50 0.57824 484662.50
3717412.50 0.54675
484687.50 3717412.50 0.51778 484712.50
3717412.50 0.49092
484737.50 3717412.50 0.46591 484762.50
3717412.50 0.44273
484787.50 3717412.50 0.42115 483412.50
3717437.50 0.47803
483437.50 3717437.50 0.50665 483462.50
3717437.50 0.53820
483487.50 3717437.50 0.57266 483512.50
3717437.50 0.61055
483537.50 3717437.50 0.65244 483562.50
3717437.50 0.69885
483587.50 3717437.50 0.74986 483837.50
3717437.50 1.65962
483862.50 3717437.50 1.79445 483887.50
3717437.50 1.93414
483912.50 3717437.50 2.07785 483937.50
3717437.50 2.19879
483962.50 3717437.50 2.29764 483987.50
3717437.50 2.36899
484012.50 3717437.50 2.41041 484037.50
3717437.50 2.42192
484062.50 3717437.50 2.40251 484487.50
3717437.50 0.86408
484512.50 3717437.50 0.80841 484537.50
3717437.50 0.75735
484562.50 3717437.50 0.71052 484587.50
3717437.50 0.66754
484612.50 3717437.50 0.62781 484637.50
3717437.50 0.59158
484662.50 3717437.50 0.55876 484687.50
3717437.50 0.52818
484712.50 3717437.50 0.49987 484737.50
3717437.50 0.47370
484762.50 3717437.50 0.44952 483412.50
3717462.50 0.49137
483437.50 3717462.50 0.52187 483462.50
3717462.50 0.55550
483487.50 3717462.50 0.59274 483512.50

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3717462.50        0.63386
         483537.50    3717462.50        0.67969                        483562.50
3717462.50        0.73047
         483587.50    3717462.50        0.78685                        483887.50
3717462.50        2.24783
         483912.50    3717462.50        2.43666                        483937.50
3717462.50        2.60043
         483962.50    3717462.50        2.73598                        483987.50
3717462.50        2.83285
         484012.50    3717462.50        2.88678                        484037.50
3717462.50        2.89418
         484062.50    3717462.50        2.85559                        484487.50
3717462.50        0.89882
         484512.50    3717462.50        0.83778                        484537.50
3717462.50        0.78216
         484562.50    3717462.50        0.73156                        484587.50
3717462.50        0.68548
         484612.50    3717462.50        0.64305                        484637.50
3717462.50        0.60330
         484662.50    3717462.50        0.56812                        484687.50
3717462.50        0.53790
         484712.50    3717462.50        0.50824                        484737.50
3717462.50        0.48099
         484762.50    3717462.50        0.45594                        483412.50
3717487.50        0.50429
         483437.50    3717487.50        0.53664                        483462.50
3717487.50        0.57255
         483487.50    3717487.50        0.61247                        483512.50
3717487.50        0.65700
         483537.50    3717487.50        0.70678                        483562.50
3717487.50        0.76238
♠ *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                         ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 407
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: EQUIP    ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                 L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                 L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                 L0000022    , L0000023    , L0000024    , L0000025    , L0000026
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, L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
483587.50	3717487.50	0.82458	483612.50	3717487.50	0.89422
483912.50	3717487.50	2.91312	483937.50	3717487.50	3.14347
483962.50	3717487.50	3.33781	483987.50	3717487.50	3.47904
484012.50	3717487.50	3.55013	484037.50	3717487.50	3.54346
484062.50	3717487.50	3.46535	484537.50	3717487.50	0.80623
484562.50	3717487.50	0.75182	484587.50	3717487.50	0.70260
484612.50	3717487.50	0.65802	484637.50	3717487.50	0.61674
484662.50	3717487.50	0.57793	484687.50	3717487.50	0.54539
484712.50	3717487.50	0.51621	484737.50	3717487.50	0.48789
484762.50	3717487.50	0.46197	483412.50	3717512.50	0.51684
483437.50	3717512.50	0.55163	483462.50	3717512.50	0.58998
483487.50	3717512.50	0.63238	483512.50	3717512.50	0.67988
483537.50	3717512.50	0.73362	483562.50	3717512.50	0.79443
483587.50	3717512.50	0.86313	483612.50	3717512.50	0.94053
483912.50	3717512.50	3.54463	483937.50	3717512.50	3.89490
483962.50	3717512.50	4.19366	483987.50	3717512.50	4.40018
484012.50	3717512.50	4.49484	484037.50	3717512.50	4.46362
484062.50	3717512.50	4.31411	484537.50	3717512.50	0.82935

```
         484562.50    3717512.50        0.77119                    484587.50
3717512.50        0.71889
         484612.50    3717512.50        0.67180                    484637.50
3717512.50        0.62919
         484662.50    3717512.50        0.59021                    484687.50
3717512.50        0.55476
         484712.50    3717512.50        0.52368                    484737.50
3717512.50        0.49441
         484762.50    3717512.50        0.46769                    483412.50
3717537.50        0.52861
         483437.50    3717537.50        0.56587                    483462.50
3717537.50        0.60677
         483487.50    3717537.50        0.65206                    483512.50
3717537.50        0.70286
         483537.50    3717537.50        0.76053                    483562.50
3717537.50        0.82615
         483587.50    3717537.50        0.90124                    483612.50
3717537.50        0.98719
         483637.50    3717537.50        1.08610                    483937.50
3717537.50        4.97124
         483962.50    3717537.50        5.45472                    483987.50
3717537.50        5.78579
         484012.50    3717537.50        5.91148                    484037.50
3717537.50        5.81201
         484062.50    3717537.50        5.51231                    483412.50
3717562.50        0.53938
         483437.50    3717562.50        0.57846                    483462.50
3717562.50        0.62166
         483487.50    3717562.50        0.66997                    483512.50
3717562.50        0.72452
         483537.50    3717562.50        0.78640                    483562.50
3717562.50        0.85729
         483587.50    3717562.50        0.93866                    483612.50
3717562.50        1.03271
         483637.50    3717562.50        1.14224                    483937.50
3717562.50        6.56867
         483962.50    3717562.50        7.44346                    483987.50
3717562.50        8.03514
         484012.50    3717562.50        8.20976                    484037.50
3717562.50        7.90788
         484062.50    3717562.50        7.26801                    483412.50
3717587.50        0.54922
         483437.50    3717587.50        0.58987                    483462.50
3717587.50        0.63529
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: EQUIP ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
483487.50	3717587.50	0.68631	483512.50	3717587.50	0.74437
483537.50	3717587.50	0.81066	483562.50	3717587.50	0.88686
483587.50	3717587.50	0.97487	483612.50	3717587.50	1.07660
483637.50	3717587.50	1.19659	484512.50	3717612.50	0.99199
484537.50	3717612.50	0.90996	484562.50	3717612.50	0.83818
484587.50	3717612.50	0.77469	484612.50	3717612.50	0.71845
484637.50	3717612.50	0.66854	484662.50	3717612.50	0.62392
484687.50	3717612.50	0.58395	484712.50	3717612.50	0.54793
484737.50	3717612.50	0.51515	484762.50	3717612.50	0.48541
484787.50	3717612.50	0.45846	484812.50	3717612.50	0.43388
484837.50	3717612.50	0.41079	484862.50	3717612.50	0.39012
484512.50	3717637.50	1.01360	484537.50		

```
3717637.50        0.92747
         484562.50    3717637.50        0.85236                    484587.50
3717637.50        0.78654
         484612.50    3717637.50        0.72842                    484637.50
3717637.50        0.67680
         484662.50    3717637.50        0.63097                    484687.50
3717637.50        0.58992
         484712.50    3717637.50        0.55302                    484737.50
3717637.50        0.51955
         484762.50    3717637.50        0.48922                    484787.50
3717637.50        0.46191
         484812.50    3717637.50        0.43711                    484837.50
3717637.50        0.41426
         484862.50    3717637.50        0.39319                    484512.50
3717662.50        1.03364
         484537.50    3717662.50        0.94397                    484562.50
3717662.50        0.86588
         484587.50    3717662.50        0.79773                    484612.50
3717662.50        0.73779
         484637.50    3717662.50        0.68467                    484662.50
3717662.50        0.63754
         484687.50    3717662.50        0.59570                    484712.50
3717662.50        0.55815
         484737.50    3717662.50        0.52430                    484762.50
3717662.50        0.49353
         484787.50    3717662.50        0.46652                    484812.50
3717662.50        0.44138
         484837.50    3717662.50        0.41771                    484862.50
3717662.50        0.39611
         484512.50    3717687.50        1.05324                    484537.50
3717687.50        0.95981
         484562.50    3717687.50        0.87912                    484587.50
3717687.50        0.80861
         484612.50    3717687.50        0.74679                    484637.50
3717687.50        0.69230
         484662.50    3717687.50        0.64405                    484687.50
3717687.50        0.60135
         484712.50    3717687.50        0.56303                    484737.50
3717687.50        0.52869
         484762.50    3717687.50        0.49798                    484787.50
3717687.50        0.47030
         484812.50    3717687.50        0.44500                    484837.50
3717687.50        0.42147
         484862.50    3717687.50        0.39894                    484512.50
3717712.50        1.07278
         484537.50    3717712.50        0.97573                    484562.50
3717712.50        0.89194
         484587.50    3717712.50        0.81933                    484612.50
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3717712.50 0.75588
484637.50 3717712.50 0.70009 484662.50
3717712.50 0.65070
484687.50 3717712.50 0.60692 484712.50
3717712.50 0.56781
484737.50 3717712.50 0.53283 484762.50
3717712.50 0.50142
484787.50 3717712.50 0.47302 484812.50
3717712.50 0.44740

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** *** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: EQUIP ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
484837.50	3717712.50	0.42380	484862.50	3717712.50	0.40159
484512.50	3717737.50	1.09103	484537.50	3717737.50	0.99116
484562.50	3717737.50	0.90509	484587.50	3717737.50	0.83045
484612.50	3717737.50	0.76533	484637.50	3717737.50	0.70808
484662.50	3717737.50	0.65749	484687.50	3717737.50	0.61258

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         484712.50    3717737.50        0.57263                    484737.50
3717737.50        0.53700
         484762.50    3717737.50        0.50499                    484787.50
3717737.50        0.47593
         484812.50    3717737.50        0.44952                    484837.50
3717737.50        0.42551
         484862.50    3717737.50        0.40357                    484512.50
3717762.50        1.10946
         484537.50    3717762.50        1.00687                    484562.50
3717762.50        0.91847
         484587.50    3717762.50        0.84206                    484612.50
3717762.50        0.77518
         484637.50    3717762.50        0.71636                    484662.50
3717762.50        0.66461
         484687.50    3717762.50        0.61868                    484712.50
3717762.50        0.57792
         484737.50    3717762.50        0.54159                    484762.50
3717762.50        0.50907
         484787.50    3717762.50        0.47941                    484812.50
3717762.50        0.45224
         484837.50    3717762.50        0.42763                    484862.50
3717762.50        0.40532
         484512.50    3717787.50        1.12748                    484537.50
3717787.50        1.02232
         484562.50    3717787.50        0.93217                    484587.50
3717787.50        0.85374
         484612.50    3717787.50        0.78507                    484637.50
3717787.50        0.72492
         484662.50    3717787.50        0.67202                    484687.50
3717787.50        0.62526
         484712.50    3717787.50        0.58377                    484737.50
3717787.50        0.54689
         484762.50    3717787.50        0.51358                    484787.50
3717787.50        0.48338
         484812.50    3717787.50        0.45576                    484837.50
3717787.50        0.43043
         484862.50    3717787.50        0.40789                    483412.50
3717812.50        0.59150
         483437.50    3717812.50        0.63833                    483462.50
3717812.50        0.69187
         483487.50    3717812.50        0.75357                    484512.50
3717812.50        1.14490
         484537.50    3717812.50        1.03755                    484562.50
3717812.50        0.94519
         484587.50    3717812.50        0.86517                    484612.50
3717812.50        0.79507
         484637.50    3717812.50        0.73353                    484662.50
3717812.50        0.67962
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         484687.50    3717812.50        0.63205                        484712.50
3717812.50        0.58986
         484737.50    3717812.50        0.55220                        484762.50
3717812.50        0.51837
         484787.50    3717812.50        0.48764                        484812.50
3717812.50        0.45971
         484837.50    3717812.50        0.43421                        484862.50
3717812.50        0.41131
         483412.50    3717837.50        0.58994                        483437.50
3717837.50        0.63647
         483462.50    3717837.50        0.68965                        483487.50
3717837.50        0.75089
         483512.50    3717837.50        0.82181                        484512.50
3717837.50        1.16129
         484537.50    3717837.50        1.05177                        484562.50
3717837.50        0.95765
         484587.50    3717837.50        0.87618                        484612.50
3717837.50        0.80498
         484637.50    3717837.50        0.74238                        484662.50
3717837.50        0.68744
         484687.50    3717837.50        0.63906                        484712.50
3717837.50        0.59617
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***        09:53:15

                                    PAGE 410
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: EQUIP    ***
                                    INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                            ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
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Y-COORD (M) CONC

- - - -

3717887.50 0.44606
484862.50 3717887.50 0.42213 483412.50
3717912.50 0.57827
483437.50 3717912.50 0.62277 483462.50
3717912.50 0.67314
483487.50 3717912.50 0.72648 483512.50
3717912.50 0.79169
483537.50 3717912.50 0.86834 483562.50
3717912.50 0.95997
484512.50 3717912.50 1.19968 484537.50
3717912.50 1.08723
484562.50 3717912.50 0.99012 484587.50
3717912.50 0.90577
484612.50 3717912.50 0.83213 484637.50
3717912.50 0.76736
484662.50 3717912.50 0.71033 484687.50
3717912.50 0.65973
484712.50 3717912.50 0.61474 484737.50
3717912.50 0.57454
484762.50 3717912.50 0.53847 484787.50
3717912.50 0.50598
484812.50 3717912.50 0.47665 484837.50
3717912.50 0.45006
484862.50 3717912.50 0.42573 483412.50
3717937.50 0.57216
483437.50 3717937.50 0.61562 483462.50
3717937.50 0.66490
483487.50 3717937.50 0.71737 483512.50
3717937.50 0.78020
483537.50 3717937.50 0.85398 483562.50
3717937.50 0.93970
483587.50 3717937.50 1.04600 484512.50
3717937.50 1.20670
484537.50 3717937.50 1.09476 484562.50
3717937.50 0.99779

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: EQUIP ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010

, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
484587.50	3717937.50	0.91336	484612.50	3717937.50	0.83942
484637.50	3717937.50	0.77437	484662.50	3717937.50	0.71689
484687.50	3717937.50	0.66595	484712.50	3717937.50	0.62051
484737.50	3717937.50	0.57988	484762.50	3717937.50	0.54344
484787.50	3717937.50	0.51058	484812.50	3717937.50	0.48086
484837.50	3717937.50	0.45394	484862.50	3717937.50	0.42941
483412.50	3717962.50	0.56429	483437.50	3717962.50	0.60644
483462.50	3717962.50	0.65446	483487.50	3717962.50	0.70902
483512.50	3717962.50	0.76918	483537.50	3717962.50	0.84015
483562.50	3717962.50	0.92428	483587.50	3717962.50	1.02536
483612.50	3717962.50	1.13983	484512.50	3717962.50	1.20955
484537.50	3717962.50	1.09905	484562.50	3717962.50	1.00296
484587.50	3717962.50	0.91899	484612.50	3717962.50	0.84524
484637.50	3717962.50	0.78022	484662.50	3717962.50	0.72261
484687.50	3717962.50	0.67146	484712.50	3717962.50	0.62579
484737.50	3717962.50	0.58482	484762.50	3717962.50	0.54805

```
         484787.50    3717962.50        0.51490                    484812.50
3717962.50        0.48491
         484837.50    3717962.50        0.45769                    484862.50
3717962.50        0.43290
         483412.50    3717987.50        0.55521                    483437.50
3717987.50        0.59595
         483462.50    3717987.50        0.64196                    483487.50
3717987.50        0.69479
         483512.50    3717987.50        0.75575                    483537.50
3717987.50        0.82547
         483562.50    3717987.50        0.90621                    483587.50
3717987.50        0.99932
         483612.50    3717987.50        1.10680                    484512.50
3717987.50        1.20755
         484537.50    3717987.50        1.09948                    484562.50
3717987.50        1.00506
         484587.50    3717987.50        0.92220                    484612.50
3717987.50        0.84917
         484637.50    3717987.50        0.78451                    484662.50
3717987.50        0.72714
         484687.50    3717987.50        0.67591                    484712.50
3717987.50        0.63024
         484737.50    3717987.50        0.58922                    484762.50
3717987.50        0.55225
         484787.50    3717987.50        0.51890                    484812.50
3717987.50        0.48869
         484837.50    3717987.50        0.46126                    484862.50
3717987.50        0.43629
         483412.50    3718012.50        0.54486                    483437.50
3718012.50        0.58454
         483462.50    3718012.50        0.62857                    483487.50
3718012.50        0.67956
         483512.50    3718012.50        0.73825                    483537.50
3718012.50        0.80496
         483562.50    3718012.50        0.88197                    483587.50
3718012.50        0.96952
         483612.50    3718012.50        1.06948                    483637.50
3718012.50        1.18871
         484512.50    3718012.50        1.20015                    484537.50
3718012.50        1.09546
         484562.50    3718012.50        1.00357                    484587.50
3718012.50        0.92254
         484612.50    3718012.50        0.85076                    484637.50
3718012.50        0.78692
         484662.50    3718012.50        0.73005                    484687.50
3718012.50        0.67926
         484712.50    3718012.50        0.63374                    484737.50
3718012.50        0.59279
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: EQUIP ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
484762.50	3718012.50	0.55584	484787.50	3718012.50	0.52241
484812.50	3718012.50	0.49212	484837.50	3718012.50	0.46456
484862.50	3718012.50	0.43945	483412.50	3718037.50	0.53395
483437.50	3718037.50	0.57205	483462.50	3718037.50	0.61461
483487.50	3718037.50	0.66366	483512.50	3718037.50	0.71933
483537.50	3718037.50	0.78395	483562.50	3718037.50	0.85702
483587.50	3718037.50	0.93710	483612.50	3718037.50	1.02756
483637.50	3718037.50	1.13963	483662.50	3718037.50	1.26512
484512.50	3718037.50	1.18698	484537.50	3718037.50	1.08678
484562.50	3718037.50	0.99822	484587.50		

```
3718037.50        0.91967
         484612.50    3718037.50        0.84971                    484637.50
3718037.50        0.78722
         484662.50    3718037.50        0.73124                    484687.50
3718037.50        0.68114
         484712.50    3718037.50        0.63599                    484737.50
3718037.50        0.59539
         484762.50    3718037.50        0.55859                    484787.50
3718037.50        0.52530
         484812.50    3718037.50        0.49500                    484837.50
3718037.50        0.46741
         484862.50    3718037.50        0.44221                    483412.50
3718062.50        0.52135
         483437.50    3718062.50        0.55827                    483462.50
3718062.50        0.60038
         483487.50    3718062.50        0.64717                    483512.50
3718062.50        0.70072
         483537.50    3718062.50        0.76169                    483562.50
3718062.50        0.83089
         483587.50    3718062.50        0.90397                    483612.50
3718062.50        0.98910
         483637.50    3718062.50        1.09037                    483662.50
3718062.50        1.20269
         484512.50    3718062.50        1.16812                    484537.50
3718062.50        1.07326
         484562.50    3718062.50        0.98881                    484587.50
3718062.50        0.91340
         484612.50    3718062.50        0.84580                    484637.50
3718062.50        0.78504
         484662.50    3718062.50        0.73040                    484687.50
3718062.50        0.68122
         483412.50    3718087.50        0.50618                    483437.50
3718087.50        0.54173
         483462.50    3718087.50        0.58337                    483487.50
3718087.50        0.63040
         483512.50    3718087.50        0.68099                    483537.50
3718087.50        0.73899
         483562.50    3718087.50        0.80267                    483587.50
3718087.50        0.87225
         483612.50    3718087.50        0.95384                    483637.50
3718087.50        1.04269
         483662.50    3718087.50        1.13841                    484512.50
3718087.50        1.14382
         484537.50    3718087.50        1.05506                    484562.50
3718087.50        0.97532
         484587.50    3718087.50        0.90358                    484612.50
3718087.50        0.83889
         484637.50    3718087.50        0.78041                    484662.50
```

3718087.50 0.72745
484687.50 3718087.50 0.67955 483412.50 3718112.50 0.49266
483437.50 3718112.50 0.52750 483462.50 3718112.50 0.56892
483487.50 3718112.50 0.61369 483512.50 3718112.50 0.66144
483537.50 3718112.50 0.71389 483562.50 3718112.50 0.77205
483587.50 3718112.50 0.84101 483612.50 3718112.50 0.91260
483637.50 3718112.50 0.99100 483662.50 3718112.50 1.07699

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA *** 04/16/20
*** AERMET - VERSION 16216 *** *** *** 09:53:15

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: EQUIP ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
483687.50	3718112.50	1.17682	484512.50	3718112.50	1.11433
484537.50	3718112.50	1.03227	484562.50	3718112.50	0.95783
484587.50	3718112.50	0.89029	484612.50	3718112.50	0.82894

```
         484637.50    3718112.50        0.77309                    484662.50
3718112.50        0.72227
         484687.50    3718112.50        0.67600                    483412.50
3718137.50        0.48431
         483437.50    3718137.50        0.51722                    483462.50
3718137.50        0.55620
         483487.50    3718137.50        0.59675                    483512.50
3718137.50        0.64123
         483537.50    3718137.50        0.68926                    483562.50
3718137.50        0.74295
         483587.50    3718137.50        0.80318                    483612.50
3718137.50        0.86924
         483637.50    3718137.50        0.94139                    483662.50
3718137.50        1.02196
         483687.50    3718137.50        1.10928                    484512.50
3718137.50        1.08028
         484537.50    3718137.50        1.00529                    484562.50
3718137.50        0.93656
         484587.50    3718137.50        0.87364                    484612.50
3718137.50        0.81604
         484637.50    3718137.50        0.76324                    484662.50
3718137.50        0.71488
         484687.50    3718137.50        0.67061                    483412.50
3718162.50        0.47746
         483437.50    3718162.50        0.50825                    483462.50
3718162.50        0.54333
         483487.50    3718162.50        0.58069                    483512.50
3718162.50        0.62238
         483537.50    3718162.50        0.66778                    483562.50
3718162.50        0.71622
         483587.50    3718162.50        0.76938                    483612.50
3718162.50        0.82846
         483637.50    3718162.50        0.89602                    483662.50
3718162.50        0.96764
         483687.50    3718162.50        1.04504                    484512.50
3718162.50        1.04254
         484537.50    3718162.50        0.97472                    484562.50
3718162.50        0.91196
         484587.50    3718162.50        0.85394                    484612.50
3718162.50        0.80036
         484637.50    3718162.50        0.75090                    484662.50
3718162.50        0.70529
         484687.50    3718162.50        0.66326                    484712.50
3718162.50        0.62450
         484737.50    3718162.50        0.58881                    484762.50
3718162.50        0.55585
         484787.50    3718162.50        0.52542                    484812.50
3718162.50        0.49736
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         484837.50    3718162.50        0.47137                          484862.50
3718162.50        0.44726
         483412.50    3718187.50        0.46848                          483437.50
3718187.50        0.49523
         483462.50    3718187.50        0.52962                          483487.50
3718187.50        0.56561
         483512.50    3718187.50        0.60467                          483537.50
3718187.50        0.64771
         483562.50    3718187.50        0.69148                          484512.50
3718187.50        1.00193
         484537.50    3718187.50        0.94129                          484562.50
3718187.50        0.88451
         484587.50    3718187.50        0.83152                          484612.50
3718187.50        0.78216
         484637.50    3718187.50        0.73624                          484662.50
3718187.50        0.69355
         484687.50    3718187.50        0.65394                          484712.50
3718187.50        0.61721
         484737.50    3718187.50        0.58313                          484762.50
3718187.50        0.55154
         484787.50    3718187.50        0.52224                          484812.50
3718187.50        0.49505
         484837.50    3718187.50        0.46979                          484862.50
3718187.50        0.44650
         484162.50    3718212.50        1.69786                          484187.50
3718212.50        1.68129
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 414
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: EQUIP    ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                 L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                 L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                 L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***
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X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
484212.50	3718212.50	1.65407	484512.50	3718212.50	0.95933
484537.50	3718212.50	0.90561	484562.50	3718212.50	0.85477
484587.50	3718212.50	0.80684	484612.50	3718212.50	0.76176
484637.50	3718212.50	0.71946	484662.50	3718212.50	0.67984
484687.50	3718212.50	0.64280	484712.50	3718212.50	0.60822
484737.50	3718212.50	0.57596	484762.50	3718212.50	0.54587
484787.50	3718212.50	0.51780	484812.50	3718212.50	0.49163
484837.50	3718212.50	0.46745	484862.50	3718212.50	0.44489
484512.50	3718237.50	0.91554	484537.50	3718237.50	0.86842
484562.50	3718237.50	0.82331	484587.50	3718237.50	0.78033
484612.50	3718237.50	0.73952	484637.50	3718237.50	0.70088
484662.50	3718237.50	0.66439	484687.50	3718237.50	0.63001
484712.50	3718237.50	0.59769	484737.50	3718237.50	0.56736
484762.50	3718237.50	0.53888	484787.50	3718237.50	0.51219
484812.50	3718237.50	0.48724	484837.50	3718237.50	0.46397
484862.50	3718237.50	0.44216	483412.50	3718262.50	0.43008
483437.50	3718262.50	0.45373	484137.50	3718262.50	1.31287
484162.50	3718262.50	1.31396	484212.50	3718262.50	1.29918
484512.50	3718262.50	0.87138	484537.50	3718262.50	0.83036
484562.50	3718262.50	0.79068	484587.50	3718262.50	0.75247
484612.50	3718262.50	0.71582	484637.50		

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3718262.50        0.68080
         484662.50    3718262.50        0.64744                        484687.50
3718262.50        0.61574
         484712.50    3718262.50        0.58576                        484737.50
3718262.50        0.55743
         484762.50    3718262.50        0.53069                        484787.50
3718262.50        0.50544
         484812.50    3718262.50        0.48176                        484837.50
3718262.50        0.45950
         484862.50    3718262.50        0.43858                        483412.50
3718287.50        0.42193
         483437.50    3718287.50        0.44287                        484212.50
3718287.50        1.16148
         484512.50    3718287.50        0.82752                        484537.50
3718287.50        0.79208
         484562.50    3718287.50        0.75745                        484587.50
3718287.50        0.72372
         484612.50    3718287.50        0.69105                        484637.50
3718287.50        0.65954
         484662.50    3718287.50        0.62927                        484687.50
3718287.50        0.60024
         484712.50    3718287.50        0.57258                        484737.50
3718287.50        0.54628
         484762.50    3718287.50        0.52131                        484787.50
3718287.50        0.49763
         484812.50    3718287.50        0.47521                        484837.50
3718287.50        0.45406
         484862.50    3718287.50        0.43412                        483412.50
3718312.50        0.40925
         483437.50    3718312.50        0.42783                        484187.50
3718312.50        1.04877
         483412.50    3718337.50        0.39893                        483437.50
3718337.50        0.41779
         484187.50    3718337.50        0.94770                        483412.50
3718412.50        0.36378
         483437.50    3718412.50        0.38458                        483412.50
3718437.50        0.35096
         483437.50    3718437.50        0.37071                        484462.50
3718462.50        0.58108
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                       ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 415
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
```

VALUES FOR SOURCE GROUP: EQUIP ***
INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
484487.50	3718462.50	0.57205	484462.50	3718487.50	0.54891
484487.50	3718487.50	0.54095			

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN1 ***
INCLUDING SOURCE(S): GEN1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
481950.00	3715450.00	0.05062	482050.00	3715450.00	0.05185

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         482150.00    3715450.00        0.05273                    482250.00
3715450.00        0.05456
         482350.00    3715450.00        0.05618                    482450.00
3715450.00        0.05717
         482550.00    3715450.00        0.05858                    482650.00
3715450.00        0.06024
         482750.00    3715450.00        0.06208                    482850.00
3715450.00        0.06406
         482950.00    3715450.00        0.06570                    483050.00
3715450.00        0.06761
         483150.00    3715450.00        0.06929                    483250.00
3715450.00        0.07071
         483350.00    3715450.00        0.07213                    483450.00
3715450.00        0.07333
         483550.00    3715450.00        0.07448                    483650.00
3715450.00        0.07507
         483750.00    3715450.00        0.07614                    483850.00
3715450.00        0.07707
         483950.00    3715450.00        0.07765                    484050.00
3715450.00        0.07794
         484150.00    3715450.00        0.07791                    484250.00
3715450.00        0.07814
         484350.00    3715450.00        0.07878                    484450.00
3715450.00        0.07920
         481950.00    3715550.00        0.05176                    482050.00
3715550.00        0.05324
         482150.00    3715550.00        0.05425                    482250.00
3715550.00        0.05603
         482350.00    3715550.00        0.05727                    482550.00
3715550.00        0.06055
         482650.00    3715550.00        0.06232                    482750.00
3715550.00        0.06406
         482850.00    3715550.00        0.06592                    482950.00
3715550.00        0.06809
         483050.00    3715550.00        0.07031                    483150.00
3715550.00        0.07223
         483250.00    3715550.00        0.07395                    483350.00
3715550.00        0.07540
         483450.00    3715550.00        0.07671                    483550.00
3715550.00        0.07802
         483650.00    3715550.00        0.07905                    483750.00
3715550.00        0.07987
         483850.00    3715550.00        0.08119                    483950.00
3715550.00        0.08187
         484050.00    3715550.00        0.08238                    484250.00
3715550.00        0.08257
         484350.00    3715550.00        0.08239                    484450.00
3715550.00        0.08267
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         484550.00    3715550.00        0.08348                        484950.00
3715550.00        0.08513
         485050.00    3715550.00        0.08395                        481950.00
3715650.00        0.05306
         482050.00    3715650.00        0.05456                        482150.00
3715650.00        0.05619
         482250.00    3715650.00        0.05751                        482350.00
3715650.00        0.05887
         482450.00    3715650.00        0.06076                        482650.00
3715650.00        0.06451
         482750.00    3715650.00        0.06673                        482850.00
3715650.00        0.06860
         482950.00    3715650.00        0.07032                        483050.00
3715650.00        0.07272
         483150.00    3715650.00        0.07523                        483250.00
3715650.00        0.07745
         483350.00    3715650.00        0.07923                        483450.00
3715650.00        0.08064
         483550.00    3715650.00        0.08219                        483650.00
3715650.00        0.08297
         483750.00    3715650.00        0.08457                        483850.00
3715650.00        0.08491
         483950.00    3715650.00        0.08642                        484050.00
3715650.00        0.08632
         484150.00    3715650.00        0.08655                        484350.00
3715650.00        0.08762
         484450.00    3715650.00        0.08691                        484550.00
3715650.00        0.08734
         484650.00    3715650.00        0.08753                        484750.00
3715650.00        0.08821
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 417
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN1     ***
                                  INCLUDING SOURCE(S):     GEN1        ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                            ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **
```

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
484950.00	3715650.00	0.09086	485050.00	3715650.00	0.09031
481950.00	3715750.00	0.05430	482050.00	3715750.00	0.05595
482150.00	3715750.00	0.05731	482250.00	3715750.00	0.05884
482350.00	3715750.00	0.06087	482450.00	3715750.00	0.06284
482550.00	3715750.00	0.06514	482750.00	3715750.00	0.06890
482850.00	3715750.00	0.07195	482950.00	3715750.00	0.07359
483050.00	3715750.00	0.07613	483150.00	3715750.00	0.07890
483250.00	3715750.00	0.08099	483350.00	3715750.00	0.08322
483450.00	3715750.00	0.08468	483550.00	3715750.00	0.08666
483650.00	3715750.00	0.08773	483750.00	3715750.00	0.08916
483850.00	3715750.00	0.09009	483950.00	3715750.00	0.09104
484050.00	3715750.00	0.09193	484150.00	3715750.00	0.09179
484250.00	3715750.00	0.09151	484550.00	3715750.00	0.09156
484650.00	3715750.00	0.09137	484750.00	3715750.00	0.09127
484850.00	3715750.00	0.09065	484950.00	3715750.00	0.09032
485050.00	3715750.00	0.08978	481950.00	3715850.00	0.05576
482050.00	3715850.00	0.05757	482150.00	3715850.00	0.05881
482250.00	3715850.00	0.06103	482350.00	3715850.00	0.06286
482450.00	3715850.00	0.06515	482550.00	3715850.00	0.06726
482650.00	3715850.00	0.06964	482750.00	3715850.00	0.07219
482850.00	3715850.00	0.07465	482950.00	3715850.00	0.07708
483050.00	3715850.00	0.07932	483150.00	3715850.00	0.08252

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         483350.00    3715850.00        0.08744                        483450.00
3715850.00        0.08942
         483550.00    3715850.00        0.09147                        483650.00
3715850.00        0.09299
         483750.00    3715850.00        0.09503                        483850.00
3715850.00        0.09604
         483950.00    3715850.00        0.09652                        484050.00
3715850.00        0.09779
         484150.00    3715850.00        0.09774                        484250.00
3715850.00        0.09744
         484550.00    3715850.00        0.09751                        484650.00
3715850.00        0.09657
         484750.00    3715850.00        0.09586                        484850.00
3715850.00        0.09503
         485150.00    3715850.00        0.09276                        485250.00
3715850.00        0.09437
         481950.00    3715950.00        0.05721                        482050.00
3715950.00        0.05870
         482150.00    3715950.00        0.06071                        482250.00
3715950.00        0.06305
         482350.00    3715950.00        0.06510                        482450.00
3715950.00        0.06723
         482550.00    3715950.00        0.06981                        482650.00
3715950.00        0.07211
         482750.00    3715950.00        0.07459                        482850.00
3715950.00        0.07750
         482950.00    3715950.00        0.08079                        483050.00
3715950.00        0.08370
         483350.00    3715950.00        0.09213                        483450.00
3715950.00        0.09487
         483550.00    3715950.00        0.09674                        483650.00
3715950.00        0.09873
         483750.00    3715950.00        0.10036                        483850.00
3715950.00        0.10257
         483950.00    3715950.00        0.10268                        484050.00
3715950.00        0.10406
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                        ***        09:53:15

                                   PAGE 418
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN1      ***
                                   INCLUDING SOURCE(S):     GEN1        ,
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
484150.00	3715950.00	0.10467	484250.00	3715950.00	0.10427
484850.00	3715950.00	0.10043	485150.00	3715950.00	0.09775
485250.00	3715950.00	0.10077	481950.00	3716050.00	0.05872
482050.00	3716050.00	0.06047	482150.00	3716050.00	0.06261
482250.00	3716050.00	0.06494	482350.00	3716050.00	0.06716
482450.00	3716050.00	0.06959	482550.00	3716050.00	0.07232
482650.00	3716050.00	0.07502	482750.00	3716050.00	0.07754
482850.00	3716050.00	0.08102	482950.00	3716050.00	0.08412
483050.00	3716050.00	0.08744	483150.00	3716050.00	0.09047
483350.00	3716050.00	0.09722	483450.00	3716050.00	0.10046
483550.00	3716050.00	0.10294	483650.00	3716050.00	0.10488
483750.00	3716050.00	0.10757	483850.00	3716050.00	0.10946
483950.00	3716050.00	0.11042	484050.00	3716050.00	0.11103
484150.00	3716050.00	0.11224	484250.00	3716050.00	0.11169
484450.00	3716050.00	0.11048	484750.00	3716050.00	0.10794
484850.00	3716050.00	0.10651	485050.00	3716050.00	0.10373
485150.00	3716050.00	0.10291	485250.00	3716050.00	0.10447
485350.00	3716050.00	0.10055	485450.00	3716050.00	0.10076
481950.00	3716150.00	0.06035	482050.00	3716150.00	0.06244

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         482150.00    3716150.00        0.06460                        482250.00
3716150.00        0.06699
         482350.00    3716150.00        0.06956                        482450.00
3716150.00        0.07209
         482550.00    3716150.00        0.07483                        482650.00
3716150.00        0.07791
         482750.00    3716150.00        0.08100                        482850.00
3716150.00        0.08423
         482950.00    3716150.00        0.08807                        483050.00
3716150.00        0.09185
         483150.00    3716150.00        0.09520                        483450.00
3716150.00        0.10666
         483550.00    3716150.00        0.10983                        483650.00
3716150.00        0.11223
         483750.00    3716150.00        0.11525                        483850.00
3716150.00        0.11733
         483950.00    3716150.00        0.11894                        484150.00
3716150.00        0.12066
         484250.00    3716150.00        0.12036                        484350.00
3716150.00        0.12020
         484450.00    3716150.00        0.11908                        484850.00
3716150.00        0.11343
         484950.00    3716150.00        0.11159                        485150.00
3716150.00        0.10808
         485250.00    3716150.00        0.10613                        485350.00
3716150.00        0.10462
         485450.00    3716150.00        0.10353                        481950.00
3716250.00        0.06196
         482050.00    3716250.00        0.06443                        482150.00
3716250.00        0.06687
         482250.00    3716250.00        0.06929                        482350.00
3716250.00        0.07184
         482450.00    3716250.00        0.07468                        482550.00
3716250.00        0.07771
         482650.00    3716250.00        0.08095                        482750.00
3716250.00        0.08444
         482850.00    3716250.00        0.08830                        482950.00
3716250.00        0.09228
         483050.00    3716250.00        0.09631                        483150.00
3716250.00        0.10056
         483450.00    3716250.00        0.11331                        483550.00
3716250.00        0.11735
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: GEN1 ***
INCLUDING SOURCE(S): GEN1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
483650.00	3716250.00	0.12071	483750.00	3716250.00	0.12388
483850.00	3716250.00	0.12640	483950.00	3716250.00	0.12806
484150.00	3716250.00	0.13188	484850.00	3716250.00	0.12206
484950.00	3716250.00	0.12019	485050.00	3716250.00	0.11636
485150.00	3716250.00	0.11407	485250.00	3716250.00	0.11207
485350.00	3716250.00	0.11034	481950.00	3716350.00	0.06385
482050.00	3716350.00	0.06657	482150.00	3716350.00	0.06918
482250.00	3716350.00	0.07235	482350.00	3716350.00	0.07470
482450.00	3716350.00	0.07751	482550.00	3716350.00	0.08077
482650.00	3716350.00	0.08435	482750.00	3716350.00	0.08825
482850.00	3716350.00	0.09223	482950.00	3716350.00	0.09683
483050.00	3716350.00	0.10149	483150.00	3716350.00	0.10634
483450.00	3716350.00	0.12120	483550.00	3716350.00	0.12592
483650.00	3716350.00	0.13005	483750.00	3716350.00	0.13397
483850.00	3716350.00	0.13709	483950.00	3716350.00	0.13917
484850.00	3716350.00	0.13068	484950.00	3716350.00	0.12991

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         481950.00    3716450.00        0.06604                    482550.00
3716450.00        0.08432
         482650.00    3716450.00        0.08814                    482750.00
3716450.00        0.09229
         482850.00    3716450.00        0.09634                    482950.00
3716450.00        0.10192
         483050.00    3716450.00        0.10756                    483150.00
3716450.00        0.11293
         483450.00    3716450.00        0.13036                    483550.00
3716450.00        0.13589
         483650.00    3716450.00        0.14087                    483750.00
3716450.00        0.14535
         483850.00    3716450.00        0.14945                    483950.00
3716450.00        0.15217
         484050.00    3716450.00        0.15398                    485150.00
3716450.00        0.13159
         482650.00    3716550.00        0.09304                    482750.00
3716550.00        0.09698
         482850.00    3716550.00        0.10128                    482950.00
3716550.00        0.10825
         483450.00    3716550.00        0.14055                    483550.00
3716550.00        0.14773
         483650.00    3716550.00        0.15354                    483750.00
3716550.00        0.15970
         483850.00    3716550.00        0.16445                    483950.00
3716550.00        0.16811
         484050.00    3716550.00        0.17024                    484950.00
3716550.00        0.14693
         485050.00    3716550.00        0.14605                    485150.00
3716550.00        0.14502
         482850.00    3716650.00        0.10662                    482950.00
3716650.00        0.11377
         483450.00    3716650.00        0.15117                    483550.00
3716650.00        0.16050
         483650.00    3716650.00        0.16913                    483750.00
3716650.00        0.17725
         483850.00    3716650.00        0.18236                    483950.00
3716650.00        0.18746
         484050.00    3716650.00        0.19029                    485250.00
3716650.00        0.14188
         481950.00    3716750.00        0.06995                    482650.00
3716750.00        0.10326
         482750.00    3716750.00        0.10882                    482850.00
3716750.00        0.11255
         482950.00    3716750.00        0.12087                    483050.00
3716750.00        0.12850
         483150.00    3716750.00        0.13864                    483450.00
3716750.00        0.16465
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: GEN1 ***
INCLUDING SOURCE(S): GEN1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
483550.00	3716750.00	0.17645	483650.00	3716750.00	0.19100
483750.00	3716750.00	0.20066	483850.00	3716750.00	0.20471
483950.00	3716750.00	0.21081	484050.00	3716750.00	0.21460
485150.00	3716750.00	0.15708	485250.00	3716750.00	0.14887
485350.00	3716750.00	0.14126	485450.00	3716750.00	0.13315
485550.00	3716750.00	0.12760	485650.00	3716750.00	0.11707
481950.00	3716850.00	0.07154	482050.00	3716850.00	0.07495
482150.00	3716850.00	0.07855	482650.00	3716850.00	0.10871
482750.00	3716850.00	0.11423	482850.00	3716850.00	0.12010
482950.00	3716850.00	0.12963	483050.00	3716850.00	0.14138
483150.00	3716850.00	0.14885	483250.00	3716850.00	0.15665
484050.00	3716850.00	0.25148	485550.00	3716850.00	0.12959
485650.00	3716850.00	0.11906	481950.00	3716950.00	0.07294

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         482050.00    3716950.00        0.07630                    482150.00
3716950.00        0.08044
         482250.00    3716950.00        0.08504                    482350.00
3716950.00        0.09004
         482450.00    3716950.00        0.09574                    483150.00
3716950.00        0.15931
         483250.00    3716950.00        0.16972                    485550.00
3716950.00        0.12987
         485650.00    3716950.00        0.12022                    481950.00
3717050.00        0.07425
         482050.00    3717050.00        0.07791                    482150.00
3717050.00        0.08233
         482250.00    3717050.00        0.08735                    482350.00
3717050.00        0.09245
         482450.00    3717050.00        0.09829                    482550.00
3717050.00        0.10466
         482650.00    3717050.00        0.11215                    482850.00
3717050.00        0.13106
         482950.00    3717050.00        0.14640                    483250.00
3717050.00        0.19140
         485350.00    3717050.00        0.15494                    485450.00
3717050.00        0.14372
         485550.00    3717050.00        0.13115                    485650.00
3717050.00        0.12080
         486250.00    3717050.00        0.07716                    481950.00
3717150.00        0.07496
         482050.00    3717150.00        0.07959                    482150.00
3717150.00        0.08470
         482250.00    3717150.00        0.08888                    482350.00
3717150.00        0.09446
         482450.00    3717150.00        0.10115                    482550.00
3717150.00        0.10732
         482650.00    3717150.00        0.11612                    482750.00
3717150.00        0.12552
         482850.00    3717150.00        0.13542                    482950.00
3717150.00        0.14842
         483050.00    3717150.00        0.16735                    485350.00
3717150.00        0.15824
         485450.00    3717150.00        0.14408                    485550.00
3717150.00        0.13080
         485650.00    3717150.00        0.12045                    481950.00
3717250.00        0.07642
         482050.00    3717250.00        0.08048                    482150.00
3717250.00        0.08530
         482250.00    3717250.00        0.09186                    482350.00
3717250.00        0.09798
         482450.00    3717250.00        0.10323                    482550.00
3717250.00        0.11048
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         482650.00    3717250.00        0.11945                       482750.00
3717250.00        0.13052
         482850.00    3717250.00        0.14153                       482950.00
3717250.00        0.15389
         483050.00    3717250.00        0.17123                       483150.00
3717250.00        0.19378
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 421
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN1     ***
                                  INCLUDING SOURCE(S):     GEN1        ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         483250.00    3717250.00        0.21999                       483350.00
3717250.00        0.25030
         483450.00    3717250.00        0.27753                       483850.00
3717250.00        0.45498
         483950.00    3717250.00        0.50586                       486150.00
3717250.00        0.08805
         486250.00    3717250.00        0.08376                       481950.00
3717350.00        0.07776
         482050.00    3717350.00        0.08177                       482150.00
3717350.00        0.08633
         482250.00    3717350.00        0.09238                       482350.00
3717350.00        0.09892
         482450.00    3717350.00        0.10595                       482550.00
3717350.00        0.11321
         482650.00    3717350.00        0.12303                       482750.00
3717350.00        0.13488
         482850.00    3717350.00        0.14689                       482950.00
3717350.00        0.16020
         483050.00    3717350.00        0.17895                       483150.00
3717350.00        0.20223
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         483250.00    3717350.00        0.23050                    483350.00
3717350.00        0.26540
         483450.00    3717350.00        0.30436                    483850.00
3717350.00        0.57992
         483950.00    3717350.00        0.65198                    484050.00
3717350.00        0.70780
         484650.00    3717350.00        0.43598                    484750.00
3717350.00        0.37010
         486050.00    3717350.00        0.09094                    486150.00
3717350.00        0.08619
         486250.00    3717350.00        0.08190                    481950.00
3717450.00        0.07925
         482050.00    3717450.00        0.08349                    482150.00
3717450.00        0.08771
         482250.00    3717450.00        0.09421                    482350.00
3717450.00        0.10012
         482450.00    3717450.00        0.10737                    482750.00
3717450.00        0.13968
         482850.00    3717450.00        0.15207                    482950.00
3717450.00        0.16653
         483050.00    3717450.00        0.18609                    483150.00
3717450.00        0.21147
         483250.00    3717450.00        0.24436                    483350.00
3717450.00        0.28621
         483450.00    3717450.00        0.33963                    483550.00
3717450.00        0.40805
         483850.00    3717450.00        0.73631                    483950.00
3717450.00        0.87724
         484050.00    3717450.00        0.96012                    484550.00
3717450.00        0.59598
         484650.00    3717450.00        0.49491                    484750.00
3717450.00        0.39859
         481950.00    3717550.00        0.08106                    482050.00
3717550.00        0.08568
         482150.00    3717550.00        0.09075                    482250.00
3717550.00        0.09588
         482350.00    3717550.00        0.10250                    482450.00
3717550.00        0.10993
         482750.00    3717550.00        0.14237                    482850.00
3717550.00        0.15558
         482950.00    3717550.00        0.17081                    483050.00
3717550.00        0.19246
         483250.00    3717550.00        0.25814                    483350.00
3717550.00        0.30692
         483450.00    3717550.00        0.38171                    483550.00
3717550.00        0.47043
         483950.00    3717550.00        1.32958                    484050.00
3717550.00        1.50937
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485850.00 3717550.00 0.10253 485950.00 3717550.00 0.09604
481950.00 3717650.00 0.07907 482050.00 3717650.00 0.08633
482150.00 3717650.00 0.09194 482250.00 3717650.00 0.09774
482350.00 3717650.00 0.10459 482450.00 3717650.00 0.11199
482550.00 3717650.00 0.12158 482650.00 3717650.00 0.13143
482750.00 3717650.00 0.14455 482850.00 3717650.00 0.15826

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: GEN1 ***
INCLUDING SOURCE(S): GEN1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
482950.00	3717650.00	0.17575	483350.00	3717650.00	0.32591
484550.00	3717650.00	0.71229	484650.00	3717650.00	0.53435
484750.00	3717650.00	0.41679	484850.00	3717650.00	0.33480
485150.00	3717650.00	0.20476	485450.00	3717650.00	0.14209
485550.00	3717650.00	0.12990	482250.00	3717750.00	0.09795
482350.00	3717750.00	0.10185	482450.00	3717750.00	0.10873
482550.00	3717750.00	0.11880	482650.00	3717750.00	0.13056

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         482750.00    3717750.00        0.14682                    482850.00
3717750.00        0.16062
         482950.00    3717750.00        0.17999                    484550.00
3717750.00        0.73247
         484650.00    3717750.00        0.53701                    484750.00
3717750.00        0.41612
         484850.00    3717750.00        0.33377                    485150.00
3717750.00        0.20294
         485450.00    3717750.00        0.14156                    485550.00
3717750.00        0.12938
         485650.00    3717750.00        0.11922                    485750.00
3717750.00        0.10991
         485850.00    3717750.00        0.10205                    485950.00
3717750.00        0.09544
         486050.00    3717750.00        0.08973                    482250.00
3717850.00        0.09457
         482650.00    3717850.00        0.12659                    482750.00
3717850.00        0.14323
         482850.00    3717850.00        0.16234                    482950.00
3717850.00        0.18134
         483350.00    3717850.00        0.34837                    483450.00
3717850.00        0.44456
         484550.00    3717850.00        0.75957                    484650.00
3717850.00        0.54752
         484750.00    3717850.00        0.42176                    484850.00
3717850.00        0.33705
         484950.00    3717850.00        0.27794                    485150.00
3717850.00        0.20299
         485250.00    3717850.00        0.17797                    485450.00
3717850.00        0.14308
         485550.00    3717850.00        0.13053                    485650.00
3717850.00        0.11981
         485750.00    3717850.00        0.11027                    485850.00
3717850.00        0.10276
         485950.00    3717850.00        0.09643                    486050.00
3717850.00        0.09024
         481950.00    3717950.00        0.07013                    482250.00
3717950.00        0.09128
         482350.00    3717950.00        0.09393                    482750.00
3717950.00        0.13847
         483350.00    3717950.00        0.34908                    483450.00
3717950.00        0.44577
         483550.00    3717950.00        0.59590                    484550.00
3717950.00        0.80937
         484650.00    3717950.00        0.57789                    484750.00
3717950.00        0.43888
         484850.00    3717950.00        0.34860                    484950.00
3717950.00        0.28546
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485350.00 3717950.00 0.16065 485450.00 3717950.00 0.14404
485550.00 3717950.00 0.13207 485650.00 3717950.00 0.12030
485750.00 3717950.00 0.11081 485850.00 3717950.00 0.10357
485950.00 3717950.00 0.09727 486050.00 3717950.00 0.09120
481950.00 3718050.00 0.07124 482050.00 3718050.00 0.07372
482750.00 3718050.00 0.13684 482850.00 3718050.00 0.15450
482950.00 3718050.00 0.17112 483050.00 3718050.00 0.19585
483150.00 3718050.00 0.22543 483250.00 3718050.00 0.26575
483350.00 3718050.00 0.32753 483450.00 3718050.00 0.41627

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: GEN1 ***
INCLUDING SOURCE(S): GEN1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
483550.00	3718050.00	0.57026	483650.00	3718050.00	0.83178
484550.00	3718050.00	0.89603	484650.00	3718050.00	0.62696
485450.00	3718050.00	0.14710	485550.00	3718050.00	0.13317
485650.00	3718050.00	0.12122	485750.00	3718050.00	0.11148

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         485850.00    3718050.00        0.10368                    485950.00
3718050.00        0.09714
         486050.00    3718050.00        0.09126                    481950.00
3718150.00        0.07317
         482050.00    3718150.00        0.07521                    482150.00
3718150.00        0.07824
         482250.00    3718150.00        0.08429                    482350.00
3718150.00        0.09125
         482650.00    3718150.00        0.12041                    482750.00
3718150.00        0.13415
         482850.00    3718150.00        0.14291                    482950.00
3718150.00        0.15905
         483050.00    3718150.00        0.18090                    483150.00
3718150.00        0.21157
         483350.00    3718150.00        0.30714                    483450.00
3718150.00        0.38732
         483550.00    3718150.00        0.51308                    483650.00
3718150.00        0.72388
         484550.00    3718150.00        0.92718                    484650.00
3718150.00        0.66882
         485250.00    3718150.00        0.18953                    485550.00
3718150.00        0.13476
         485650.00    3718150.00        0.12279                    485750.00
3718150.00        0.11286
         481950.00    3718250.00        0.07360                    482050.00
3718250.00        0.07625
         482150.00    3718250.00        0.07883                    482250.00
3718250.00        0.08250
         482350.00    3718250.00        0.09024                    482450.00
3718250.00        0.09840
         482550.00    3718250.00        0.10654                    482650.00
3718250.00        0.11782
         482750.00    3718250.00        0.12868                    482850.00
3718250.00        0.13221
         482950.00    3718250.00        0.14450                    483250.00
3718250.00        0.23027
         484550.00    3718250.00        0.86584                    484650.00
3718250.00        0.66900
         484750.00    3718250.00        0.51934                    484850.00
3718250.00        0.41066
         485150.00    3718250.00        0.22910                    485250.00
3718250.00        0.19703
         485650.00    3718250.00        0.12561                    481950.00
3718350.00        0.07107
         482050.00    3718350.00        0.07493                    482150.00
3718350.00        0.07769
         482250.00    3718350.00        0.08050                    482350.00
3718350.00        0.08787
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         482450.00    3718350.00        0.09632                        482550.00
3718350.00        0.10399
         482650.00    3718350.00        0.11322                        482750.00
3718350.00        0.12364
         483150.00    3718350.00        0.17571                        483450.00
3718350.00        0.33997
         485250.00    3718350.00        0.20466                        485350.00
3718350.00        0.17866
         485550.00    3718350.00        0.14075                        485650.00
3718350.00        0.12952
         486150.00    3718350.00        0.08707                        486250.00
3718350.00        0.08212
         481950.00    3718450.00        0.06911                        482050.00
3718450.00        0.07324
         482150.00    3718450.00        0.07592                        482250.00
3718450.00        0.07888
         482350.00    3718450.00        0.08511                        482450.00
3718450.00        0.09300
         482550.00    3718450.00        0.10118                        482650.00
3718450.00        0.10972
         482750.00    3718450.00        0.11958                        482850.00
3718450.00        0.12767
         483350.00    3718450.00        0.25772                        484450.00
3718450.00        0.62897
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***       04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***       09:53:15

                                  PAGE 424
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN1     ***
                                  INCLUDING SOURCE(S):     GEN1        ,

                                           *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                           ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - -
         485150.00    3718450.00        0.24568                        485250.00
3718450.00        0.21077
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         485350.00    3718450.00        0.18493                    485750.00
3718450.00        0.11964
         485850.00    3718450.00        0.10903                    485950.00
3718450.00        0.10051
         486050.00    3718450.00        0.09429                    481950.00
3718550.00        0.06689
         482050.00    3718550.00        0.07072                    482150.00
3718550.00        0.07495
         482250.00    3718550.00        0.07882                    482350.00
3718550.00        0.08375
         482450.00    3718550.00        0.09107                    482550.00
3718550.00        0.09828
         482650.00    3718550.00        0.10591                    482750.00
3718550.00        0.11701
         482850.00    3718550.00        0.12677                    482950.00
3718550.00        0.13703
         483550.00    3718550.00        0.33106                    484650.00
3718550.00        0.44610
         484750.00    3718550.00        0.40959                    484850.00
3718550.00        0.36744
         485850.00    3718550.00        0.11174                    485950.00
3718550.00        0.10340
         482050.00    3718650.00        0.06855                    482150.00
3718650.00        0.07307
         482250.00    3718650.00        0.07813                    482350.00
3718650.00        0.08380
         482450.00    3718650.00        0.08915                    482550.00
3718650.00        0.09585
         482650.00    3718650.00        0.10439                    482750.00
3718650.00        0.11412
         482850.00    3718650.00        0.12599                    482950.00
3718650.00        0.13984
         485150.00    3718650.00        0.23835                    485450.00
3718650.00        0.17020
         485550.00    3718650.00        0.15218                    485650.00
3718650.00        0.13658
         485850.00    3718650.00        0.11590                    485950.00
3718650.00        0.10511
         486050.00    3718650.00        0.09858                    482050.00
3718750.00        0.06745
         482150.00    3718750.00        0.07192                    482250.00
3718750.00        0.07603
         482350.00    3718750.00        0.08162                    482450.00
3718750.00        0.08781
         482550.00    3718750.00        0.09472                    482650.00
3718750.00        0.10251
         482750.00    3718750.00        0.11277                    482850.00
3718750.00        0.12481
```

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         482950.00    3718750.00        0.13784                        483050.00
3718750.00        0.15406
         484950.00    3718750.00        0.26923                        485050.00
3718750.00        0.25060
         485150.00    3718750.00        0.23055                        485850.00
3718750.00        0.11878
         485950.00    3718750.00        0.10837                        486050.00
3718750.00        0.10014
         482350.00    3718850.00        0.08036                        482450.00
3718850.00        0.08650
         482550.00    3718850.00        0.09320                        482650.00
3718850.00        0.10121
         482750.00    3718850.00        0.11153                        482850.00
3718850.00        0.12320
         482950.00    3718850.00        0.13516                        483050.00
3718850.00        0.14976
         483150.00    3718850.00        0.16079                        484150.00
3718850.00        0.23837
         484250.00    3718850.00        0.24434                        485350.00
3718850.00        0.18217
         485450.00    3718850.00        0.16664                        485750.00
3718850.00        0.12954
         485850.00    3718850.00        0.11925                        485950.00
3718850.00        0.11104
         486050.00    3718850.00        0.10167                        482450.00
3718950.00        0.08512
         482550.00    3718950.00        0.09226                        482650.00
3718950.00        0.09981
         482750.00    3718950.00        0.10999                        482850.00
3718950.00        0.12039
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 425
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN1     ***
                                  INCLUDING SOURCE(S):     GEN1        ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                            ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **
```

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
482950.00	3718950.00	0.13165	483050.00	3718950.00	0.14302
483150.00	3718950.00	0.15548	483250.00	3718950.00	0.16396
485750.00	3718950.00	0.13200	485850.00	3718950.00	0.12128
485950.00	3718950.00	0.11128	486050.00	3718950.00	0.10394
482250.00	3719050.00	0.07258	482350.00	3719050.00	0.07806
482450.00	3719050.00	0.08395	482550.00	3719050.00	0.09073
482650.00	3719050.00	0.09905	482850.00	3719050.00	0.11688
482950.00	3719050.00	0.12591	483050.00	3719050.00	0.13597
483150.00	3719050.00	0.14553	483250.00	3719050.00	0.15368
483350.00	3719050.00	0.15862	483450.00	3719050.00	0.16200
483550.00	3719050.00	0.16359	485250.00	3719050.00	0.17096
485450.00	3719050.00	0.15421	485550.00	3719050.00	0.14495
485650.00	3719050.00	0.13688	485750.00	3719050.00	0.12930
482350.00	3719150.00	0.07735	482650.00	3719150.00	0.09708
482850.00	3719150.00	0.11317	483050.00	3719150.00	0.12891
483150.00	3719150.00	0.13616	483250.00	3719150.00	0.14251
483350.00	3719150.00	0.14631	483450.00	3719150.00	0.14833
483550.00	3719150.00	0.14891	485250.00	3719150.00	0.15939
485550.00	3719150.00	0.13943	485650.00	3719150.00	0.13291
485950.00	3719150.00	0.11143	484550.00	3719250.00	0.15237
484750.00	3719250.00	0.15229	484850.00	3719250.00	0.15222
484750.00	3719350.00	0.13827	484850.00	3719350.00	0.13780

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         484950.00    3719350.00        0.13711                        485050.00
3719350.00        0.13659
         485150.00    3719350.00        0.13559                        484250.00
3719450.00        0.12460
         484350.00    3719450.00        0.12593                        484450.00
3719450.00        0.12730
         484550.00    3719450.00        0.12758                        484650.00
3719450.00        0.12691
         484750.00    3719450.00        0.12650                        484850.00
3719450.00        0.12619
         484950.00    3719450.00        0.12617                        485050.00
3719450.00        0.12592
         485150.00    3719450.00        0.12477                        485250.00
3719450.00        0.12407
         485350.00    3719450.00        0.12297                        485450.00
3719450.00        0.12056
         485550.00    3719450.00        0.11844                        484250.00
3719550.00        0.11439
         484350.00    3719550.00        0.11560                        484450.00
3719550.00        0.11690
         484550.00    3719550.00        0.11814                        484650.00
3719550.00        0.11779
         484750.00    3719550.00        0.11686                        484850.00
3719550.00        0.11661
         484950.00    3719550.00        0.11654                        485050.00
3719550.00        0.11569
         485150.00    3719550.00        0.11540                        485250.00
3719550.00        0.11451
         485350.00    3719550.00        0.11478                        485450.00
3719550.00        0.11321
         485550.00    3719550.00        0.11144                        484450.00
3719850.00        0.09507
         484550.00    3719850.00        0.09596                        484650.00
3719850.00        0.09565
         484350.00    3719950.00        0.08893                        484450.00
3719950.00        0.08898
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                        ***       09:53:15

                                  PAGE 426
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN1     ***
                                  INCLUDING SOURCE(S):     GEN1        ,
```

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
484550.00	3719950.00	0.08908	484650.00	3719950.00	0.09013
483837.50	3717212.50	0.42633	483862.50	3717212.50	0.43136
483887.50	3717212.50	0.44599	483412.50	3717237.50	0.26429
483812.50	3717237.50	0.43108	483837.50	3717237.50	0.44107
483862.50	3717237.50	0.45132	483887.50	3717237.50	0.46610
483912.50	3717237.50	0.47826	483937.50	3717237.50	0.48828
483412.50	3717262.50	0.26875	483437.50	3717262.50	0.27658
483462.50	3717262.50	0.28431	483812.50	3717262.50	0.44568
483837.50	3717262.50	0.45882	483862.50	3717262.50	0.47193
483887.50	3717262.50	0.48866	483912.50	3717262.50	0.50074
483937.50	3717262.50	0.51196	483962.50	3717262.50	0.52760
483987.50	3717262.50	0.54042	483412.50	3717287.50	0.27369
483437.50	3717287.50	0.28214	483462.50	3717287.50	0.29093
483487.50	3717287.50	0.29998	483812.50	3717287.50	0.46886
483837.50	3717287.50	0.48312	483862.50	3717287.50	0.49777
483887.50	3717287.50	0.51485	483912.50	3717287.50	0.53016
483937.50	3717287.50	0.54396	483962.50	3717287.50	0.55909
483987.50	3717287.50	0.57325	484012.50	3717287.50	0.58632
483412.50	3717312.50	0.27973	483437.50	3717312.50	0.28866

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         483462.50    3717312.50        0.29801                        483487.50
3717312.50        0.30791
         483512.50    3717312.50        0.31837                        483787.50
3717312.50        0.48132
         483812.50    3717312.50        0.49790                        483837.50
3717312.50        0.51479
         483862.50    3717312.50        0.53183                        483887.50
3717312.50        0.54913
         483912.50    3717312.50        0.56586                        483937.50
3717312.50        0.58082
         483962.50    3717312.50        0.59659                        483987.50
3717312.50        0.61163
         484012.50    3717312.50        0.62556                        484037.50
3717312.50        0.63769
         484562.50    3717312.50        0.47025                        484587.50
3717312.50        0.45538
         484612.50    3717312.50        0.43884                        484637.50
3717312.50        0.42234
         484662.50    3717312.50        0.40538                        484687.50
3717312.50        0.38937
         484712.50    3717312.50        0.37478                        484737.50
3717312.50        0.36172
         484762.50    3717312.50        0.34870                        483412.50
3717337.50        0.28626
         483437.50    3717337.50        0.29591                        483462.50
3717337.50        0.30584
         483487.50    3717337.50        0.31676                        483512.50
3717337.50        0.32828
         483537.50    3717337.50        0.34137                        483787.50
3717337.50        0.50917
         483812.50    3717337.50        0.53026                        483837.50
3717337.50        0.55026
         483862.50    3717337.50        0.57016                        483887.50
3717337.50        0.59005
         483912.50    3717337.50        0.60868                        483937.50
3717337.50        0.62175
         483962.50    3717337.50        0.63824                        483987.50
3717337.50        0.65503
         484012.50    3717337.50        0.66910                        484037.50
3717337.50        0.68034
         484562.50    3717337.50        0.49309                        484587.50
3717337.50        0.47593
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: GEN1 ***
INCLUDING SOURCE(S): GEN1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
484612.50	3717337.50	0.45720	484637.50	3717337.50	0.43774
484662.50	3717337.50	0.41926	484687.50	3717337.50	0.40231
484712.50	3717337.50	0.38634	484737.50	3717337.50	0.37247
484762.50	3717337.50	0.35812	483412.50	3717362.50	0.29268
483437.50	3717362.50	0.30283	483462.50	3717362.50	0.31407
483487.50	3717362.50	0.32613	483512.50	3717362.50	0.33891
483537.50	3717362.50	0.35355	483787.50	3717362.50	0.53728
483812.50	3717362.50	0.56303	483837.50	3717362.50	0.58742
483862.50	3717362.50	0.61271	483887.50	3717362.50	0.63777
483912.50	3717362.50	0.65784	483937.50	3717362.50	0.67123
483962.50	3717362.50	0.68334	483987.50	3717362.50	0.70126
484012.50	3717362.50	0.71633	484037.50	3717362.50	0.72789
484562.50	3717362.50	0.51413	484587.50	3717362.50	0.49485
484612.50	3717362.50	0.47442	484637.50	3717362.50	0.45349
484662.50	3717362.50	0.43320	484687.50	3717362.50	0.41318
484712.50	3717362.50	0.39698	484737.50	3717362.50	0.38206

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         484762.50    3717362.50        0.36667                    484787.50
3717362.50        0.35057
         483412.50    3717387.50        0.29867                    483437.50
3717387.50        0.31040
         483462.50    3717387.50        0.32288                    483487.50
3717387.50        0.33590
         483512.50    3717387.50        0.34994                    483537.50
3717387.50        0.36557
         483562.50    3717387.50        0.38172                    483787.50
3717387.50        0.56669
         483812.50    3717387.50        0.59472                    483837.50
3717387.50        0.62306
         483862.50    3717387.50        0.65498                    483887.50
3717387.50        0.68640
         483912.50    3717387.50        0.70664                    483937.50
3717387.50        0.72028
         483962.50    3717387.50        0.73443                    483987.50
3717387.50        0.75254
         484012.50    3717387.50        0.76824                    484037.50
3717387.50        0.78114
         484062.50    3717387.50        0.79062                    484562.50
3717387.50        0.53541
         484587.50    3717387.50        0.51350                    484612.50
3717387.50        0.49151
         484637.50    3717387.50        0.46886                    484662.50
3717387.50        0.44726
         484687.50    3717387.50        0.42673                    484712.50
3717387.50        0.40845
         484737.50    3717387.50        0.39079                    484762.50
3717387.50        0.37339
         484787.50    3717387.50        0.35613                    483412.50
3717412.50        0.30580
         483437.50    3717412.50        0.31861                    483462.50
3717412.50        0.33241
         483487.50    3717412.50        0.34672                    483512.50
3717412.50        0.36189
         483537.50    3717412.50        0.37829                    483562.50
3717412.50        0.39584
         483787.50    3717412.50        0.59836                    483812.50
3717412.50        0.62730
         483837.50    3717412.50        0.65781                    483862.50
3717412.50        0.69148
         483887.50    3717412.50        0.72345                    483912.50
3717412.50        0.74972
         483937.50    3717412.50        0.77116                    483962.50
3717412.50        0.79085
         483987.50    3717412.50        0.81044                    484012.50
3717412.50        0.82739
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: GEN1 ***
INCLUDING SOURCE(S): GEN1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
484037.50	3717412.50	0.84175	484062.50	3717412.50	0.85142
484487.50	3717412.50	0.62306	484512.50	3717412.50	0.60055
484537.50	3717412.50	0.57790	484562.50	3717412.50	0.55521
484587.50	3717412.50	0.53236	484612.50	3717412.50	0.50926
484637.50	3717412.50	0.48473	484662.50	3717412.50	0.46068
484687.50	3717412.50	0.43978	484712.50	3717412.50	0.41911
484737.50	3717412.50	0.39867	484762.50	3717412.50	0.37961
484787.50	3717412.50	0.36153	483412.50	3717437.50	0.31393
483437.50	3717437.50	0.32771	483462.50	3717437.50	0.34255
483487.50	3717437.50	0.35797	483512.50	3717437.50	0.37424
483537.50	3717437.50	0.39167	483562.50	3717437.50	0.41036
483587.50	3717437.50	0.42979	483837.50	3717437.50	0.69536
483862.50	3717437.50	0.72750	483887.50	3717437.50	0.76100

```
         483912.50    3717437.50        0.79807                    483937.50
3717437.50        0.82832
         483962.50    3717437.50        0.85459                    483987.50
3717437.50        0.87688
         484012.50    3717437.50        0.89582                    484037.50
3717437.50        0.91219
         484062.50    3717437.50        0.92505                    484487.50
3717437.50        0.65385
         484512.50    3717437.50        0.62648                    484537.50
3717437.50        0.59987
         484562.50    3717437.50        0.57426                    484587.50
3717437.50        0.55001
         484612.50    3717437.50        0.52673                    484637.50
3717437.50        0.50196
         484662.50    3717437.50        0.47606                    484687.50
3717437.50        0.45177
         484712.50    3717437.50        0.42790                    484737.50
3717437.50        0.40584
         484762.50    3717437.50        0.38556                    483412.50
3717462.50        0.32215
         483437.50    3717462.50        0.33676                    483462.50
3717462.50        0.35232
         483487.50    3717462.50        0.36900                    483512.50
3717462.50        0.38658
         483537.50    3717462.50        0.40559                    483562.50
3717462.50        0.42555
         483587.50    3717462.50        0.44659                    483887.50
3717462.50        0.82570
         483912.50    3717462.50        0.86683                    483937.50
3717462.50        0.90130
         483962.50    3717462.50        0.93209                    483987.50
3717462.50        0.95861
         484012.50    3717462.50        0.98158                    484037.50
3717462.50        1.00028
         484062.50    3717462.50        1.01397                    484487.50
3717462.50        0.68435
         484512.50    3717462.50        0.65287                    484537.50
3717462.50        0.62147
         484562.50    3717462.50        0.59188                    484587.50
3717462.50        0.56477
         484612.50    3717462.50        0.54103                    484637.50
3717462.50        0.51209
         484662.50    3717462.50        0.48572                    484687.50
3717462.50        0.46266
         484712.50    3717462.50        0.43507                    484737.50
3717462.50        0.41206
         484762.50    3717462.50        0.39099                    483412.50
3717487.50        0.33021
```

483437.50 3717487.50 0.34560 483462.50 3717487.50 0.36219
483487.50 3717487.50 0.37998 483512.50 3717487.50 0.39908
483537.50 3717487.50 0.41959 483562.50 3717487.50 0.44124

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: GEN1 ***
INCLUDING SOURCE(S): GEN1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
483587.50	3717487.50	0.46415	483612.50	3717487.50	0.48836
483912.50	3717487.50	0.95088	483937.50	3717487.50	0.99043
483962.50	3717487.50	1.02701	483987.50	3717487.50	1.06037
484012.50	3717487.50	1.08841	484037.50	3717487.50	1.10939
484062.50	3717487.50	1.12340	484537.50	3717487.50	0.64298
484562.50	3717487.50	0.60910	484587.50	3717487.50	0.57784
484612.50	3717487.50	0.55106	484637.50	3717487.50	0.52533
484662.50	3717487.50	0.49325	484687.50	3717487.50	0.46939
484712.50	3717487.50	0.44264	484737.50	3717487.50	0.41791
484762.50	3717487.50	0.39594	483412.50	3717512.50	0.33841

```
         483437.50    3717512.50        0.35604                    483462.50
3717512.50        0.37401
         483487.50    3717512.50        0.39223                    483512.50
3717512.50        0.41195
         483537.50    3717512.50        0.43384                    483562.50
3717512.50        0.45766
         483587.50    3717512.50        0.48302                    483612.50
3717512.50        0.50963
         483912.50    3717512.50        1.04783                    483937.50
3717512.50        1.09746
         483962.50    3717512.50        1.14276                    483987.50
3717512.50        1.18173
         484012.50    3717512.50        1.21601                    484037.50
3717512.50        1.24302
         484062.50    3717512.50        1.26027                    484537.50
3717512.50        0.66345
         484562.50    3717512.50        0.62580                    484587.50
3717512.50        0.59117
         484612.50    3717512.50        0.56035                    484637.50
3717512.50        0.53222
         484662.50    3717512.50        0.50530                    484687.50
3717512.50        0.47826
         484712.50    3717512.50        0.45051                    484737.50
3717512.50        0.42372
         484762.50    3717512.50        0.40081                    483412.50
3717537.50        0.34598
         483437.50    3717537.50        0.36690                    483462.50
3717537.50        0.38723
         483487.50    3717537.50        0.40635                    483512.50
3717537.50        0.42666
         483537.50    3717537.50        0.44955                    483562.50
3717537.50        0.47468
         483587.50    3717537.50        0.50228                    483612.50
3717537.50        0.53202
         483637.50    3717537.50        0.56422                    483937.50
3717537.50        1.22624
         483962.50    3717537.50        1.28006                    483987.50
3717537.50        1.32722
         484012.50    3717537.50        1.36892                    484037.50
3717537.50        1.40316
         484062.50    3717537.50        1.42527                    483412.50
3717562.50        0.35241
         483437.50    3717562.50        0.37435                    483462.50
3717562.50        0.39652
         483487.50    3717562.50        0.41848                    483512.50
3717562.50        0.44132
         483537.50    3717562.50        0.46570                    483562.50
3717562.50        0.49282
```

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         483587.50    3717562.50        0.52229                        483612.50
3717562.50        0.55459
         483637.50    3717562.50        0.59019                        483937.50
3717562.50        1.37752
         483962.50    3717562.50        1.44532                        483987.50
3717562.50        1.50236
         484012.50    3717562.50        1.55517                        484037.50
3717562.50        1.59730
         484062.50    3717562.50        1.62848                        483412.50
3717587.50        0.35814
         483437.50    3717587.50        0.38033                        483462.50
3717587.50        0.40398
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 430
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN1     ***
                                  INCLUDING SOURCE(S):     GEN1        ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         483487.50    3717587.50        0.42819                        483512.50
3717587.50        0.45437
         483537.50    3717587.50        0.48188                        483562.50
3717587.50        0.51150
         483587.50    3717587.50        0.54346                        483612.50
3717587.50        0.57753
         483637.50    3717587.50        0.61650                        484512.50
3717612.50        0.78304
         484537.50    3717612.50        0.72541                        484562.50
3717612.50        0.67498
         484587.50    3717612.50        0.62861                        484612.50
3717612.50        0.58680
         484637.50    3717612.50        0.54964                        484662.50
3717612.50        0.51558
```

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         484687.50    3717612.50        0.48473                    484712.50
3717612.50        0.45625
         484737.50    3717612.50        0.42887                    484762.50
3717612.50        0.40399
         484787.50    3717612.50        0.38167                    484812.50
3717612.50        0.36127
         484837.50    3717612.50        0.34114                    484862.50
3717612.50        0.32403
         484512.50    3717637.50        0.79933                    484537.50
3717637.50        0.73672
         484562.50    3717637.50        0.68204                    484587.50
3717637.50        0.63401
         484612.50    3717637.50        0.59087                    484637.50
3717637.50        0.55167
         484662.50    3717637.50        0.51700                    484687.50
3717637.50        0.48524
         484712.50    3717637.50        0.45618                    484737.50
3717637.50        0.42883
         484762.50    3717637.50        0.40385                    484787.50
3717637.50        0.38184
         484812.50    3717637.50        0.36189                    484837.50
3717637.50        0.34302
         484862.50    3717637.50        0.32541                    484512.50
3717662.50        0.81007
         484537.50    3717662.50        0.74511                    484562.50
3717662.50        0.68770
         484587.50    3717662.50        0.63768                    484612.50
3717662.50        0.59316
         484637.50    3717662.50        0.55293                    484662.50
3717662.50        0.51707
         484687.50    3717662.50        0.48559                    484712.50
3717662.50        0.45686
         484737.50    3717662.50        0.43046                    484762.50
3717662.50        0.40556
         484787.50    3717662.50        0.38653                    484812.50
3717662.50        0.36645
         484837.50    3717662.50        0.34514                    484862.50
3717662.50        0.32656
         484512.50    3717687.50        0.82028                    484537.50
3717687.50        0.75153
         484562.50    3717687.50        0.69271                    484587.50
3717687.50        0.64051
         484612.50    3717687.50        0.59445                    484637.50
3717687.50        0.55356
         484662.50    3717687.50        0.51720                    484687.50
3717687.50        0.48551
         484712.50    3717687.50        0.45651                    484737.50
3717687.50        0.43054
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         484762.50    3717687.50        0.40810                      484787.50
3717687.50        0.38863
         484812.50    3717687.50        0.37014                      484837.50
3717687.50        0.34939
         484862.50    3717687.50        0.32755                      484512.50
3717712.50        0.83114
         484537.50    3717712.50        0.75821                      484562.50
3717712.50        0.69595
         484587.50    3717712.50        0.64258                      484612.50
3717712.50        0.59582
         484637.50    3717712.50        0.55454                      484662.50
3717712.50        0.51765
         484687.50    3717712.50        0.48504                      484712.50
3717712.50        0.45565
         484737.50    3717712.50        0.42945                      484762.50
3717712.50        0.40600
         484787.50    3717712.50        0.38464                      484812.50
3717712.50        0.36577
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 431
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN1     ***
                                  INCLUDING SOURCE(S):     GEN1        ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                         X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         484837.50    3717712.50        0.34722                      484862.50
3717712.50        0.32795
         484512.50    3717737.50        0.83561                      484537.50
3717737.50        0.76264
         484562.50    3717737.50        0.69990                      484587.50
3717737.50        0.64545
         484612.50    3717737.50        0.59787                      484637.50
3717737.50        0.55569
```

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         484662.50    3717737.50        0.51809                    484687.50
3717737.50        0.48456
         484712.50    3717737.50        0.45474                    484737.50
3717737.50        0.42831
         484762.50    3717737.50        0.40452                    484787.50
3717737.50        0.38239
         484812.50    3717737.50        0.36206                    484837.50
3717737.50        0.34347
         484862.50    3717737.50        0.32638                    484512.50
3717762.50        0.84194
         484537.50    3717762.50        0.76837                    484562.50
3717762.50        0.70450
         484587.50    3717762.50        0.64982                    484612.50
3717762.50        0.60088
         484637.50    3717762.50        0.55724                    484662.50
3717762.50        0.51909
         484687.50    3717762.50        0.48499                    484712.50
3717762.50        0.45488
         484737.50    3717762.50        0.42819                    484762.50
3717762.50        0.40440
         484787.50    3717762.50        0.38189                    484812.50
3717762.50        0.36066
         484837.50    3717762.50        0.34162                    484862.50
3717762.50        0.32450
         484512.50    3717787.50        0.84822                    484537.50
3717787.50        0.77411
         484562.50    3717787.50        0.71221                    484587.50
3717787.50        0.65525
         484612.50    3717787.50        0.60392                    484637.50
3717787.50        0.55943
         484662.50    3717787.50        0.52066                    484687.50
3717787.50        0.48651
         484712.50    3717787.50        0.45630                    484737.50
3717787.50        0.42979
         484762.50    3717787.50        0.40523                    484787.50
3717787.50        0.38246
         484812.50    3717787.50        0.36109                    484837.50
3717787.50        0.34129
         484862.50    3717787.50        0.32433                    483412.50
3717812.50        0.40037
         483437.50    3717812.50        0.42615                    483462.50
3717812.50        0.45514
         483487.50    3717812.50        0.48841                    484512.50
3717812.50        0.85573
         484537.50    3717812.50        0.78438                    484562.50
3717812.50        0.71997
         484587.50    3717812.50        0.66139                    484612.50
3717812.50        0.60786
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         484637.50    3717812.50        0.56183                        484662.50
3717812.50        0.52275
         484687.50    3717812.50        0.48855                        484712.50
3717812.50        0.45835
         484737.50    3717812.50        0.43132                        484762.50
3717812.50        0.40675
         484787.50    3717812.50        0.38368                        484812.50
3717812.50        0.36243
         484837.50    3717812.50        0.34286                        484862.50
3717812.50        0.32573
         483412.50    3717837.50        0.40276                        483437.50
3717837.50        0.42890
         483462.50    3717837.50        0.45840                        483487.50
3717837.50        0.49243
         483512.50    3717837.50        0.53145                        484512.50
3717837.50        0.86449
         484537.50    3717837.50        0.79036                        484562.50
3717837.50        0.72457
         484587.50    3717837.50        0.66628                        484612.50
3717837.50        0.61263
         484637.50    3717837.50        0.56585                        484662.50
3717837.50        0.52602
         484687.50    3717837.50        0.49158                        484712.50
3717837.50        0.46126
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 432
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN1     ***
                                  INCLUDING SOURCE(S):     GEN1        ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                            ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - -
         484737.50    3717837.50        0.43366                        484762.50
3717837.50        0.40848
```

```
         484787.50    3717837.50        0.38552                    484812.50
3717837.50        0.36427
         484837.50    3717837.50        0.34507                    484862.50
3717837.50        0.32743
         483412.50    3717862.50        0.40444                    483437.50
3717862.50        0.43114
         483462.50    3717862.50        0.46171                    483487.50
3717862.50        0.49649
         483512.50    3717862.50        0.53559                    484512.50
3717862.50        0.87332
         484537.50    3717862.50        0.79753                    484562.50
3717862.50        0.73047
         484587.50    3717862.50        0.67139                    484612.50
3717862.50        0.61816
         484637.50    3717862.50        0.57107                    484662.50
3717862.50        0.53053
         484687.50    3717862.50        0.49546                    484712.50
3717862.50        0.46445
         484737.50    3717862.50        0.43616                    484762.50
3717862.50        0.41070
         484787.50    3717862.50        0.38772                    484812.50
3717862.50        0.36659
         484837.50    3717862.50        0.34711                    484862.50
3717862.50        0.32960
         483412.50    3717887.50        0.40549                    483437.50
3717887.50        0.43279
         483462.50    3717887.50        0.46469                    483487.50
3717887.50        0.50060
         483512.50    3717887.50        0.54029                    483537.50
3717887.50        0.58513
         484512.50    3717887.50        0.88697                    484537.50
3717887.50        0.80584
         484562.50    3717887.50        0.73758                    484587.50
3717887.50        0.67775
         484612.50    3717887.50        0.62449                    484637.50
3717887.50        0.57781
         484662.50    3717887.50        0.53636                    484687.50
3717887.50        0.50067
         484712.50    3717887.50        0.46863                    484737.50
3717887.50        0.43969
         484762.50    3717887.50        0.41378                    484787.50
3717887.50        0.39043
         484812.50    3717887.50        0.36928                    484837.50
3717887.50        0.34966
         484862.50    3717887.50        0.33187                    483412.50
3717912.50        0.40560
         483437.50    3717912.50        0.43270                    483462.50
3717912.50        0.46411
```

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         483487.50    3717912.50        0.49433                        483512.50
3717912.50        0.53196
         483537.50    3717912.50        0.57691                        483562.50
3717912.50        0.63312
         484512.50    3717912.50        0.90457                        484537.50
3717912.50        0.82044
         484562.50    3717912.50        0.74907                        484587.50
3717912.50        0.68702
         484612.50    3717912.50        0.63333                        484637.50
3717912.50        0.58522
         484662.50    3717912.50        0.54369                        484687.50
3717912.50        0.50652
         484712.50    3717912.50        0.47368                        484737.50
3717912.50        0.44430
         484762.50    3717912.50        0.41785                        484787.50
3717912.50        0.39395
         484812.50    3717912.50        0.37237                        484837.50
3717912.50        0.35276
         484862.50    3717912.50        0.33443                        483412.50
3717937.50        0.40494
         483437.50    3717937.50        0.43181                        483462.50
3717937.50        0.46214
         483487.50    3717937.50        0.49327                        483512.50
3717937.50        0.52954
         483537.50    3717937.50        0.57343                        483562.50
3717937.50        0.62396
         483587.50    3717937.50        0.69300                        484512.50
3717937.50        0.92573
         484537.50    3717937.50        0.83881                        484562.50
3717937.50        0.76394
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                   PAGE 433
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN1      ***
                                   INCLUDING SOURCE(S):     GEN1        ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **
```

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
484587.50	3717937.50	0.70013	484612.50	3717937.50	0.64395
484637.50	3717937.50	0.59490	484662.50	3717937.50	0.55172
484687.50	3717937.50	0.51396	484712.50	3717937.50	0.48004
484737.50	3717937.50	0.44978	484762.50	3717937.50	0.42282
484787.50	3717937.50	0.39834	484812.50	3717937.50	0.37618
484837.50	3717937.50	0.35614	484862.50	3717937.50	0.33776
483412.50	3717962.50	0.40352	483437.50	3717962.50	0.43017
483462.50	3717962.50	0.46017	483487.50	3717962.50	0.49409
483512.50	3717962.50	0.53001	483537.50	3717962.50	0.57273
483562.50	3717962.50	0.62686	483587.50	3717962.50	0.68499
483612.50	3717962.50	0.75092	484512.50	3717962.50	0.95017
484537.50	3717962.50	0.85976	484562.50	3717962.50	0.78191
484587.50	3717962.50	0.71532	484612.50	3717962.50	0.65701
484637.50	3717962.50	0.60638	484662.50	3717962.50	0.56162
484687.50	3717962.50	0.52262	484712.50	3717962.50	0.48775
484737.50	3717962.50	0.45624	484762.50	3717962.50	0.42833
484787.50	3717962.50	0.40329	484812.50	3717962.50	0.38062
484837.50	3717962.50	0.36001	484862.50	3717962.50	0.34122
483412.50	3717987.50	0.39716	483437.50	3717987.50	0.42311
483462.50	3717987.50	0.45222	483487.50	3717987.50	0.48658
483512.50	3717987.50	0.52767	483537.50	3717987.50	0.57111
483562.50	3717987.50	0.62001	483587.50	3717987.50	0.67583

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         483612.50    3717987.50        0.74158                        484512.50
3717987.50        0.97650
         484537.50    3717987.50        0.88267                        484562.50
3717987.50        0.80236
         484587.50    3717987.50        0.73254                        484612.50
3717987.50        0.67243
         484637.50    3717987.50        0.61907                        484662.50
3717987.50        0.57305
         484687.50    3717987.50        0.53163                        484712.50
3717987.50        0.49595
         484737.50    3717987.50        0.46390                        484762.50
3717987.50        0.43493
         484787.50    3717987.50        0.40904                        484812.50
3717987.50        0.38567
         484837.50    3717987.50        0.36457                        484862.50
3717987.50        0.34540
         483412.50    3718012.50        0.38933                        483437.50
3718012.50        0.41525
         483462.50    3718012.50        0.44327                        483487.50
3718012.50        0.47682
         483512.50    3718012.50        0.51641                        483537.50
3718012.50        0.56198
         483562.50    3718012.50        0.61311                        483587.50
3718012.50        0.66908
         483612.50    3718012.50        0.73506                        483637.50
3718012.50        0.80663
         484512.50    3718012.50        1.00300                        484537.50
3718012.50        0.90768
         484562.50    3718012.50        0.82442                        484587.50
3718012.50        0.75172
         484612.50    3718012.50        0.68813                        484637.50
3718012.50        0.63237
         484662.50    3718012.50        0.58428                        484687.50
3718012.50        0.54225
         484712.50    3718012.50        0.50521                        484737.50
3718012.50        0.47205
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                        ***       09:53:15

                                  PAGE 434
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN1     ***
                                  INCLUDING SOURCE(S):     GEN1        ,
```

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
484762.50	3718012.50	0.44231	484787.50	3718012.50	0.41555
484812.50	3718012.50	0.39158	484837.50	3718012.50	0.36979
484862.50	3718012.50	0.35014	483412.50	3718037.50	0.38166
483437.50	3718037.50	0.40677	483462.50	3718037.50	0.43458
483487.50	3718037.50	0.46757	483512.50	3718037.50	0.50516
483537.50	3718037.50	0.55089	483562.50	3718037.50	0.60423
483587.50	3718037.50	0.65624	483612.50	3718037.50	0.71397
483637.50	3718037.50	0.79784	483662.50	3718037.50	0.88580
484512.50	3718037.50	1.02805	484537.50	3718037.50	0.93016
484562.50	3718037.50	0.84470	484587.50	3718037.50	0.76983
484612.50	3718037.50	0.70390	484637.50	3718037.50	0.64680
484662.50	3718037.50	0.59647	484687.50	3718037.50	0.55339
484712.50	3718037.50	0.51452	484737.50	3718037.50	0.48074
484762.50	3718037.50	0.44994	484787.50	3718037.50	0.42266
484812.50	3718037.50	0.39785	484837.50	3718037.50	0.37543
484862.50	3718037.50	0.35507	483412.50	3718062.50	0.37441
483437.50	3718062.50	0.39887	483462.50	3718062.50	0.42645
483487.50	3718062.50	0.45805	483512.50	3718062.50	0.49563
483537.50	3718062.50	0.53932	483562.50	3718062.50	0.59075

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         483587.50    3718062.50        0.63851                    483612.50
3718062.50        0.69827
         483637.50    3718062.50        0.77620                    483662.50
3718062.50        0.86094
         484512.50    3718062.50        1.04732                    484537.50
3718062.50        0.94903
         484562.50    3718062.50        0.86249                    484587.50
3718062.50        0.78553
         484612.50    3718062.50        0.71885                    484637.50
3718062.50        0.65954
         484662.50    3718062.50        0.60828                    484687.50
3718062.50        0.56350
         483412.50    3718087.50        0.36587                    483437.50
3718087.50        0.38910
         483462.50    3718087.50        0.41699                    483487.50
3718087.50        0.44927
         483512.50    3718087.50        0.48503                    483537.50
3718087.50        0.52824
         483562.50    3718087.50        0.57522                    483587.50
3718087.50        0.62547
         483612.50    3718087.50        0.68923                    483637.50
3718087.50        0.75689
         483662.50    3718087.50        0.82816                    484512.50
3718087.50        1.05844
         484537.50    3718087.50        0.96151                    484562.50
3718087.50        0.87606
         484587.50    3718087.50        0.79997                    484612.50
3718087.50        0.73262
         484637.50    3718087.50        0.67278                    484662.50
3718087.50        0.61984
         484687.50    3718087.50        0.57385                    483412.50
3718112.50        0.35771
         483437.50    3718112.50        0.38092                    483462.50
3718112.50        0.40942
         483487.50    3718112.50        0.44051                    483512.50
3718112.50        0.47475
         483537.50    3718112.50        0.51396                    483562.50
3718112.50        0.55770
         483587.50    3718112.50        0.61397                    483612.50
3718112.50        0.66949
         483637.50    3718112.50        0.73111                    483662.50
3718112.50        0.80070
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: GEN1 ***
INCLUDING SOURCE(S): GEN1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
483687.50	3718112.50	0.88280	484512.50	3718112.50	1.06252
484537.50	3718112.50	0.96811	484562.50	3718112.50	0.88470
484587.50	3718112.50	0.80980	484612.50	3718112.50	0.74320
484637.50	3718112.50	0.68321	484662.50	3718112.50	0.63043
484687.50	3718112.50	0.58371	483412.50	3718137.50	0.35332
483437.50	3718137.50	0.37572	483462.50	3718137.50	0.40362
483487.50	3718137.50	0.43233	483512.50	3718137.50	0.46473
483537.50	3718137.50	0.50002	483562.50	3718137.50	0.54082
483587.50	3718137.50	0.58782	483612.50	3718137.50	0.64158
483637.50	3718137.50	0.70174	483662.50	3718137.50	0.77332
483687.50	3718137.50	0.85310	484512.50	3718137.50	1.05919
484537.50	3718137.50	0.96905	484562.50	3718137.50	0.88897
484587.50	3718137.50	0.81699	484612.50	3718137.50	0.75120
484637.50	3718137.50	0.69203	484662.50	3718137.50	0.63974
484687.50	3718137.50	0.59316	483412.50	3718162.50	0.35030
483437.50	3718162.50	0.37181	483462.50	3718162.50	0.39679

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         483487.50    3718162.50        0.42440                    483512.50
3718162.50        0.45571
         483537.50    3718162.50        0.49049                    483562.50
3718162.50        0.52711
         483587.50    3718162.50        0.56948                    483612.50
3718162.50        0.61923
         483637.50    3718162.50        0.68000                    483662.50
3718162.50        0.74636
         483687.50    3718162.50        0.82188                    484512.50
3718162.50        1.04695
         484537.50    3718162.50        0.96390                    484562.50
3718162.50        0.88741
         484587.50    3718162.50        0.81835                    484612.50
3718162.50        0.75533
         484637.50    3718162.50        0.69830                    484662.50
3718162.50        0.64704
         484687.50    3718162.50        0.60114                    484712.50
3718162.50        0.55961
         484737.50    3718162.50        0.52233                    484762.50
3718162.50        0.48843
         484787.50    3718162.50        0.45764                    484812.50
3718162.50        0.42992
         484837.50    3718162.50        0.40450                    484862.50
3718162.50        0.38117
         483412.50    3718187.50        0.34557                    483437.50
3718187.50        0.36473
         483462.50    3718187.50        0.38967                    483487.50
3718187.50        0.41732
         483512.50    3718187.50        0.44745                    483537.50
3718187.50        0.48267
         483562.50    3718187.50        0.51732                    484512.50
3718187.50        1.02679
         484537.50    3718187.50        0.95050                    484562.50
3718187.50        0.88045
         484587.50    3718187.50        0.81587                    484612.50
3718187.50        0.75586
         484637.50    3718187.50        0.70127                    484662.50
3718187.50        0.65138
         484687.50    3718187.50        0.60646                    484712.50
3718187.50        0.56574
         484737.50    3718187.50        0.52853                    484762.50
3718187.50        0.49475
         484787.50    3718187.50        0.46404                    484812.50
3718187.50        0.43599
         484837.50    3718187.50        0.41032                    484862.50
3718187.50        0.38749
         484162.50    3718212.50        1.71072                    484187.50
3718212.50        1.73013
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: GEN1 ***
INCLUDING SOURCE(S): GEN1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
484212.50	3718212.50	1.73920	484512.50	3718212.50	0.99973
484537.50	3718212.50	0.93173	484562.50	3718212.50	0.86785
484587.50	3718212.50	0.80770	484612.50	3718212.50	0.75189
484637.50	3718212.50	0.70004	484662.50	3718212.50	0.65250
484687.50	3718212.50	0.60910	484712.50	3718212.50	0.56931
484737.50	3718212.50	0.53302	484762.50	3718212.50	0.49969
484787.50	3718212.50	0.46905	484812.50	3718212.50	0.44099
484837.50	3718212.50	0.41634	484862.50	3718212.50	0.39353
484512.50	3718237.50	0.96723	484537.50	3718237.50	0.90719
484562.50	3718237.50	0.84984	484587.50	3718237.50	0.79509
484612.50	3718237.50	0.74372	484637.50	3718237.50	0.69504
484662.50	3718237.50	0.65021	484687.50	3718237.50	0.60874
484712.50	3718237.50	0.57048	484737.50	3718237.50	0.53536

```
         484762.50    3718237.50        0.50272                    484787.50
3718237.50        0.47274
         484812.50    3718237.50        0.44537                    484837.50
3718237.50        0.42069
         484862.50    3718237.50        0.39769                    483412.50
3718262.50        0.32608
         483437.50    3718262.50        0.34479                    484137.50
3718262.50        1.27865
         484162.50    3718262.50        1.29896                    484212.50
3718262.50        1.33014
         484512.50    3718262.50        0.92974                    484537.50
3718262.50        0.87807
         484562.50    3718262.50        0.82731                    484587.50
3718262.50        0.77821
         484612.50    3718262.50        0.73114                    484637.50
3718262.50        0.68655
         484662.50    3718262.50        0.64457                    484687.50
3718262.50        0.60506
         484712.50    3718262.50        0.56898                    484737.50
3718262.50        0.53538
         484762.50    3718262.50        0.50412                    484787.50
3718262.50        0.47482
         484812.50    3718262.50        0.44825                    484837.50
3718262.50        0.42371
         484862.50    3718262.50        0.40098                    483412.50
3718287.50        0.32312
         483437.50    3718287.50        0.34059                    484212.50
3718287.50        1.17286
         484512.50    3718287.50        0.88864                    484537.50
3718287.50        0.84487
         484562.50    3718287.50        0.80049                    484587.50
3718287.50        0.75711
         484612.50    3718287.50        0.71497                    484637.50
3718287.50        0.67449
         484662.50    3718287.50        0.63587                    484687.50
3718287.50        0.59874
         484712.50    3718287.50        0.56457                    484737.50
3718287.50        0.53281
         484762.50    3718287.50        0.50303                    484787.50
3718287.50        0.47517
         484812.50    3718287.50        0.44914                    484837.50
3718287.50        0.42517
         484862.50    3718287.50        0.40301                    483412.50
3718312.50        0.31735
         483437.50    3718312.50        0.33402                    484187.50
3718312.50        1.03068
         483412.50    3718337.50        0.31340                    483437.50
3718337.50        0.33066
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         484187.50    3718337.50        0.92150                       483412.50
3718412.50        0.30008
         483437.50    3718412.50        0.31843                       483412.50
3718437.50        0.29502
         483437.50    3718437.50        0.31261                       484462.50
3718462.50        0.60591
*** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                       ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 437
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN1     ***
                                  INCLUDING SOURCE(S):     GEN1        ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                            ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         484487.50    3718462.50        0.60143                       484462.50
3718487.50        0.56519
         484487.50    3718487.50        0.56130

*** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                       ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 438
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN2     ***
                                  INCLUDING SOURCE(S):     GEN2        ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                            ** CONC OF PM_10    IN MICROGRAMS/M**3
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**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
481950.00	3715450.00	0.05201	482050.00	3715450.00	0.05323
482150.00	3715450.00	0.05405	482250.00	3715450.00	0.05595
482350.00	3715450.00	0.05762	482450.00	3715450.00	0.05856
482550.00	3715450.00	0.06000	482650.00	3715450.00	0.06172
482750.00	3715450.00	0.06366	482850.00	3715450.00	0.06578
482950.00	3715450.00	0.06749	483050.00	3715450.00	0.06954
483150.00	3715450.00	0.07133	483250.00	3715450.00	0.07283
483350.00	3715450.00	0.07437	483450.00	3715450.00	0.07568
483550.00	3715450.00	0.07697	483650.00	3715450.00	0.07763
483750.00	3715450.00	0.07889	483850.00	3715450.00	0.08002
483950.00	3715450.00	0.08074	484050.00	3715450.00	0.08111
484150.00	3715450.00	0.08111	484250.00	3715450.00	0.08140
484350.00	3715450.00	0.08222	484450.00	3715450.00	0.08276
481950.00	3715550.00	0.05328	482050.00	3715550.00	0.05478
482150.00	3715550.00	0.05573	482250.00	3715550.00	0.05756
482350.00	3715550.00	0.05877	482550.00	3715550.00	0.06212
482650.00	3715550.00	0.06396	482750.00	3715550.00	0.06576
482850.00	3715550.00	0.06772	482950.00	3715550.00	0.07003
483050.00	3715550.00	0.07242	483150.00	3715550.00	0.07448
483250.00	3715550.00	0.07632	483350.00	3715550.00	0.07787
483450.00	3715550.00	0.07930	483550.00	3715550.00	0.08075

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         483650.00    3715550.00        0.08193                        483750.00
3715550.00        0.08289
         483850.00    3715550.00        0.08449                        483950.00
3715550.00        0.08534
         484050.00    3715550.00        0.08599                        484250.00
3715550.00        0.08627
         484350.00    3715550.00        0.08607                        484450.00
3715550.00        0.08645
         484550.00    3715550.00        0.08747                        484950.00
3715550.00        0.09072
         485050.00    3715550.00        0.08945                        481950.00
3715650.00        0.05473
         482050.00    3715650.00        0.05624                        482150.00
3715650.00        0.05789
         482250.00    3715650.00        0.05918                        482350.00
3715650.00        0.06051
         482450.00    3715650.00        0.06245                        482650.00
3715650.00        0.06632
         482750.00    3715650.00        0.06866                        482850.00
3715650.00        0.07061
         482950.00    3715650.00        0.07239                        483050.00
3715650.00        0.07496
         483150.00    3715650.00        0.07769                        483250.00
3715650.00        0.08011
         483350.00    3715650.00        0.08203                        483450.00
3715650.00        0.08355
         483550.00    3715650.00        0.08528                        483650.00
3715650.00        0.08614
         483750.00    3715650.00        0.08804                        483850.00
3715650.00        0.08844
         483950.00    3715650.00        0.09031                        484050.00
3715650.00        0.09020
         484150.00    3715650.00        0.09050                        484350.00
3715650.00        0.09189
         484450.00    3715650.00        0.09104                        484550.00
3715650.00        0.09161
         484650.00    3715650.00        0.09189                        484750.00
3715650.00        0.09264
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 439
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                  *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN2     ***
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
484950.00	3715650.00	0.09467	485050.00	3715650.00	0.09381
481950.00	3715750.00	0.05612	482050.00	3715750.00	0.05779
482150.00	3715750.00	0.05912	482250.00	3715750.00	0.06064
482350.00	3715750.00	0.06272	482450.00	3715750.00	0.06474
482550.00	3715750.00	0.06714	482750.00	3715750.00	0.07099
482850.00	3715750.00	0.07429	482950.00	3715750.00	0.07595
483050.00	3715750.00	0.07867	483150.00	3715750.00	0.08169
483250.00	3715750.00	0.08392	483350.00	3715750.00	0.08636
483450.00	3715750.00	0.08790	483550.00	3715750.00	0.09014
483650.00	3715750.00	0.09133	483750.00	3715750.00	0.09301
483850.00	3715750.00	0.09412	483950.00	3715750.00	0.09530
484050.00	3715750.00	0.09643	484150.00	3715750.00	0.09627
484250.00	3715750.00	0.09596	484550.00	3715750.00	0.09612
484650.00	3715750.00	0.09596	484750.00	3715750.00	0.09591
484850.00	3715750.00	0.09520	484950.00	3715750.00	0.09481
485050.00	3715750.00	0.09413	481950.00	3715850.00	0.05778
482050.00	3715850.00	0.05962	482150.00	3715850.00	0.06080
482250.00	3715850.00	0.06310	482350.00	3715850.00	0.06495

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         482450.00    3715850.00        0.06731                        482550.00
3715850.00        0.06946
         482650.00    3715850.00        0.07194                        482750.00
3715850.00        0.07462
         482850.00    3715850.00        0.07721                        482950.00
3715850.00        0.07977
         483050.00    3715850.00        0.08211                        483150.00
3715850.00        0.08562
         483350.00    3715850.00        0.09094                        483450.00
3715850.00        0.09309
         483550.00    3715850.00        0.09537                        483650.00
3715850.00        0.09709
         483750.00    3715850.00        0.09951                        483850.00
3715850.00        0.10071
         483950.00    3715850.00        0.10131                        484050.00
3715850.00        0.10292
         484150.00    3715850.00        0.10287                        484250.00
3715850.00        0.10252
         484550.00    3715850.00        0.10274                        484650.00
3715850.00        0.10164
         484750.00    3715850.00        0.10084                        484850.00
3715850.00        0.09992
         485150.00    3715850.00        0.09731                        485250.00
3715850.00        0.09856
         481950.00    3715950.00        0.05942                        482050.00
3715950.00        0.06089
         482150.00    3715950.00        0.06296                        482250.00
3715950.00        0.06539
         482350.00    3715950.00        0.06747                        482450.00
3715950.00        0.06963
         482550.00    3715950.00        0.07230                        482650.00
3715950.00        0.07465
         482750.00    3715950.00        0.07722                        482850.00
3715950.00        0.08031
         482950.00    3715950.00        0.08385                        483050.00
3715950.00        0.08697
         483350.00    3715950.00        0.09608                        483450.00
3715950.00        0.09910
         483550.00    3715950.00        0.10114                        483650.00
3715950.00        0.10339
         483750.00    3715950.00        0.10528                        483850.00
3715950.00        0.10799
         483950.00    3715950.00        0.10811                        484050.00
3715950.00        0.10985
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: GEN2 ***
INCLUDING SOURCE(S): GEN2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
484150.00	3715950.00	0.11065	484250.00	3715950.00	0.11016
484850.00	3715950.00	0.10582	485150.00	3715950.00	0.10276
485250.00	3715950.00	0.10514	481950.00	3716050.00	0.06113
482050.00	3716050.00	0.06291	482150.00	3716050.00	0.06512
482250.00	3716050.00	0.06753	482350.00	3716050.00	0.06980
482450.00	3716050.00	0.07229	482550.00	3716050.00	0.07512
482650.00	3716050.00	0.07791	482750.00	3716050.00	0.08049
482850.00	3716050.00	0.08421	482950.00	3716050.00	0.08750
483050.00	3716050.00	0.09106	483150.00	3716050.00	0.09428
483350.00	3716050.00	0.10166	483450.00	3716050.00	0.10527
483550.00	3716050.00	0.10800	483650.00	3716050.00	0.11015
483750.00	3716050.00	0.11334	483850.00	3716050.00	0.11562
483950.00	3716050.00	0.11680	484050.00	3716050.00	0.11759
484150.00	3716050.00	0.11916	484250.00	3716050.00	0.11847
484450.00	3716050.00	0.11699	484750.00	3716050.00	0.11413

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         484850.00    3716050.00        0.11249                    485050.00
3716050.00        0.10937
         485150.00    3716050.00        0.10842                    485250.00
3716050.00        0.10958
         485350.00    3716050.00        0.10552                    485450.00
3716050.00        0.10514
         481950.00    3716150.00        0.06299                    482050.00
3716150.00        0.06516
         482150.00    3716150.00        0.06739                    482250.00
3716150.00        0.06987
         482350.00    3716150.00        0.07254                    482450.00
3716150.00        0.07513
         482550.00    3716150.00        0.07796                    482650.00
3716150.00        0.08116
         482750.00    3716150.00        0.08438                    482850.00
3716150.00        0.08776
         482950.00    3716150.00        0.09188                    483050.00
3716150.00        0.09595
         483150.00    3716150.00        0.09951                    483450.00
3716150.00        0.11215
         483550.00    3716150.00        0.11568                    483650.00
3716150.00        0.11835
         483750.00    3716150.00        0.12192                    483850.00
3716150.00        0.12442
         483950.00    3716150.00        0.12641                    484150.00
3716150.00        0.12864
         484250.00    3716150.00        0.12827                    484350.00
3716150.00        0.12809
         484450.00    3716150.00        0.12670                    484850.00
3716150.00        0.12013
         484950.00    3716150.00        0.11803                    485150.00
3716150.00        0.11409
         485250.00    3716150.00        0.11189                    485350.00
3716150.00        0.11012
         485450.00    3716150.00        0.10866                    481950.00
3716250.00        0.06481
         482050.00    3716250.00        0.06743                    482150.00
3716250.00        0.07000
         482250.00    3716250.00        0.07252                    482350.00
3716250.00        0.07515
         482450.00    3716250.00        0.07810                    482550.00
3716250.00        0.08125
         482650.00    3716250.00        0.08461                    482750.00
3716250.00        0.08826
         482850.00    3716250.00        0.09235                    482950.00
3716250.00        0.09659
         483050.00    3716250.00        0.10090                    483150.00
3716250.00        0.10551
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483450.00 3716250.00 0.11953 483550.00 3716250.00 0.12408

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: GEN2 ***
INCLUDING SOURCE(S): GEN2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
483650.00	3716250.00	0.12789	483750.00	3716250.00	0.13160
483850.00	3716250.00	0.13464	483950.00	3716250.00	0.13668
484150.00	3716250.00	0.14167	484850.00	3716250.00	0.12984
484950.00	3716250.00	0.12770	485050.00	3716250.00	0.12322
485150.00	3716250.00	0.12066	485250.00	3716250.00	0.11843
485350.00	3716250.00	0.11642	481950.00	3716350.00	0.06696
482050.00	3716350.00	0.06988	482150.00	3716350.00	0.07265
482250.00	3716350.00	0.07604	482350.00	3716350.00	0.07846
482450.00	3716350.00	0.08138	482550.00	3716350.00	0.08477
482650.00	3716350.00	0.08852	482750.00	3716350.00	0.09263
482850.00	3716350.00	0.09681	482950.00	3716350.00	0.10174
483050.00	3716350.00	0.10675	483150.00	3716350.00	0.11201

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         483450.00    3716350.00        0.12842                    483550.00
3716350.00        0.13374
         483650.00    3716350.00        0.13844                    483750.00
3716350.00        0.14306
         483850.00    3716350.00        0.14682                    483950.00
3716350.00        0.14938
         484850.00    3716350.00        0.13942                    484950.00
3716350.00        0.13860
         481950.00    3716450.00        0.06944                    482550.00
3716450.00        0.08891
         482650.00    3716450.00        0.09293                    482750.00
3716450.00        0.09730
         482850.00    3716450.00        0.10152                    482950.00
3716450.00        0.10759
         483050.00    3716450.00        0.11372                    483150.00
3716450.00        0.11954
         483450.00    3716450.00        0.13887                    483550.00
3716450.00        0.14512
         483650.00    3716450.00        0.15079                    483750.00
3716450.00        0.15603
         483850.00    3716450.00        0.16100                    483950.00
3716450.00        0.16436
         484050.00    3716450.00        0.16666                    485150.00
3716450.00        0.14020
         482650.00    3716550.00        0.09865                    482750.00
3716550.00        0.10280
         482850.00    3716550.00        0.10728                    482950.00
3716550.00        0.11498
         483450.00    3716550.00        0.15058                    483550.00
3716550.00        0.15882
         483650.00    3716550.00        0.16542                    483750.00
3716550.00        0.17275
         483850.00    3716550.00        0.17847                    483950.00
3716550.00        0.18303
         484050.00    3716550.00        0.18573                    484950.00
3716550.00        0.15736
         485050.00    3716550.00        0.15654                    485150.00
3716550.00        0.15454
         482850.00    3716650.00        0.11356                    482950.00
3716650.00        0.12142
         483450.00    3716650.00        0.16275                    483550.00
3716650.00        0.17361
         483650.00    3716650.00        0.18377                    483750.00
3716650.00        0.19353
         483850.00    3716650.00        0.19957                    483950.00
3716650.00        0.20598
         484050.00    3716650.00        0.20959                    485250.00
3716650.00        0.15167
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         481950.00    3716750.00        0.07389                        482650.00
3716750.00        0.11037
         482750.00    3716750.00        0.11654                        482850.00
3716750.00        0.12060
         482950.00    3716750.00        0.12982                        483050.00
3716750.00        0.13821
         483150.00    3716750.00        0.14955                        483450.00
3716750.00        0.17858
♠ *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                         ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                        ***        09:53:15

                                   PAGE 442
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN2      ***
                                   INCLUDING SOURCE(S):     GEN2        ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         483550.00    3716750.00        0.19247                        483650.00
3716750.00        0.21010
         483750.00    3716750.00        0.22176                        483850.00
3716750.00        0.22637
         483950.00    3716750.00        0.23401                        484050.00
3716750.00        0.23884
         485150.00    3716750.00        0.16878                        485250.00
3716750.00        0.15950
         485350.00    3716750.00        0.15092                        485450.00
3716750.00        0.14179
         485550.00    3716750.00        0.13517                        485650.00
3716750.00        0.12395
         481950.00    3716850.00        0.07572                        482050.00
3716850.00        0.07945
         482150.00    3716850.00        0.08339                        482650.00
3716850.00        0.11646
         482750.00    3716850.00        0.12282                        482850.00
3716850.00        0.12948
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         482950.00    3716850.00        0.14003                    483050.00
3716850.00        0.15280
         483150.00    3716850.00        0.16160                    483250.00
3716850.00        0.17030
         484050.00    3716850.00        0.28460                    485550.00
3716850.00        0.13767
         485650.00    3716850.00        0.12624                    481950.00
3716950.00        0.07733
         482050.00    3716950.00        0.08102                    482150.00
3716950.00        0.08559
         482250.00    3716950.00        0.09069                    482350.00
3716950.00        0.09624
         482450.00    3716950.00        0.10259                    483150.00
3716950.00        0.17411
         483250.00    3716950.00        0.18607                    485550.00
3716950.00        0.13832
         485650.00    3716950.00        0.12767                    481950.00
3717050.00        0.07886
         482050.00    3717050.00        0.08290                    482150.00
3717050.00        0.08779
         482250.00    3717050.00        0.09337                    482350.00
3717050.00        0.09905
         482450.00    3717050.00        0.10559                    482550.00
3717050.00        0.11274
         482650.00    3717050.00        0.12117                    482850.00
3717050.00        0.14262
         482950.00    3717050.00        0.15948                    483250.00
3717050.00        0.21083
         485350.00    3717050.00        0.16636                    485450.00
3717050.00        0.15382
         485550.00    3717050.00        0.13990                    485650.00
3717050.00        0.12849
         486250.00    3717050.00        0.07996                    481950.00
3717150.00        0.07971
         482050.00    3717150.00        0.08484                    482150.00
3717150.00        0.09049
         482250.00    3717150.00        0.09519                    482350.00
3717150.00        0.10143
         482450.00    3717150.00        0.10894                    482550.00
3717150.00        0.11589
         482650.00    3717150.00        0.12588                    482750.00
3717150.00        0.13658
         482850.00    3717150.00        0.14791                    482950.00
3717150.00        0.16287
         483050.00    3717150.00        0.18422                    485350.00
3717150.00        0.17025
         485450.00    3717150.00        0.15445                    485550.00
3717150.00        0.13965
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         485650.00    3717150.00        0.12825                        481950.00
3717250.00        0.08140
         482050.00    3717250.00        0.08591                        482150.00
3717250.00        0.09129
         482250.00    3717250.00        0.09854                        482350.00
3717250.00        0.10539
         482450.00    3717250.00        0.11143                        482550.00
3717250.00        0.11966
         482650.00    3717250.00        0.12986                        482750.00
3717250.00        0.14251
         482850.00    3717250.00        0.15523                        482950.00
3717250.00        0.16953
         483050.00    3717250.00        0.18979                        483150.00
3717250.00        0.21611
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 443
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                  *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN2     ***
                                  INCLUDING SOURCE(S):     GEN2        ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                            ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         483250.00    3717250.00        0.24670                        483350.00
3717250.00        0.28250
         483450.00    3717250.00        0.31696                        483850.00
3717250.00        0.54448
         483950.00    3717250.00        0.61311                        486150.00
3717250.00        0.09310
         486250.00    3717250.00        0.08838                        481950.00
3717350.00        0.08291
         482050.00    3717350.00        0.08741                        482150.00
3717350.00        0.09252
         482250.00    3717350.00        0.09928                        482350.00
3717350.00        0.10663
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         482450.00    3717350.00        0.11459                    482550.00
3717350.00        0.12291
         482650.00    3717350.00        0.13412                    482750.00
3717350.00        0.14765
         482850.00    3717350.00        0.16166                    482950.00
3717350.00        0.17722
         483050.00    3717350.00        0.19926                    483150.00
3717350.00        0.22685
         483250.00    3717350.00        0.26072                    483350.00
3717350.00        0.30305
         483450.00    3717350.00        0.35092                    483850.00
3717350.00        0.71191
         483950.00    3717350.00        0.81240                    484050.00
3717350.00        0.88922
         484650.00    3717350.00        0.50058                    484750.00
3717350.00        0.41883
         486050.00    3717350.00        0.09640                    486150.00
3717350.00        0.09126
         486250.00    3717350.00        0.08659                    481950.00
3717450.00        0.08452
         482050.00    3717450.00        0.08930                    482150.00
3717450.00        0.09410
         482250.00    3717450.00        0.10134                    482350.00
3717450.00        0.10808
         482450.00    3717450.00        0.11633                    482750.00
3717450.00        0.15308
         482850.00    3717450.00        0.16780                    482950.00
3717450.00        0.18494
         483050.00    3717450.00        0.20805                    483150.00
3717450.00        0.23828
         483250.00    3717450.00        0.27793                    483350.00
3717450.00        0.32905
         483450.00    3717450.00        0.39534                    483550.00
3717450.00        0.48177
         483850.00    3717450.00        0.92358                    483950.00
3717450.00        1.12801
         484050.00    3717450.00        1.24909                    484550.00
3717450.00        0.70013
         484650.00    3717450.00        0.56940                    484750.00
3717450.00        0.45186
         481950.00    3717550.00        0.08634                    482050.00
3717550.00        0.09151
         482150.00    3717550.00        0.09723                    482250.00
3717550.00        0.10315
         482350.00    3717550.00        0.11065                    482450.00
3717550.00        0.11915
         482750.00    3717550.00        0.15631                    482850.00
3717550.00        0.17205
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         482950.00    3717550.00        0.19025                        483050.00
3717550.00        0.21593
         483250.00    3717550.00        0.29501                        483350.00
3717550.00        0.35479
         483450.00    3717550.00        0.44770                        483550.00
3717550.00        0.56131
         483950.00    3717550.00        1.78997                        484050.00
3717550.00        2.07096
         485850.00    3717550.00        0.10935                        485950.00
3717550.00        0.10223
         481950.00    3717650.00        0.08386                        482050.00
3717650.00        0.09212
         482150.00    3717650.00        0.09855                        482250.00
3717650.00        0.10501
         482350.00    3717650.00        0.11276                        482450.00
3717650.00        0.12129
         482550.00    3717650.00        0.13216                        482650.00
3717650.00        0.14372
         482750.00    3717650.00        0.15886                        482850.00
3717650.00        0.17527
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 444
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN2     ***
                                  INCLUDING SOURCE(S):     GEN2        ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         482950.00    3717650.00        0.19611                        483350.00
3717650.00        0.37826
         484550.00    3717650.00        0.83800                        484650.00
3717650.00        0.61705
         484750.00    3717650.00        0.47471                        484850.00
3717650.00        0.37713
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         485150.00    3717650.00        0.22549                    485450.00
3717650.00        0.15359
         485550.00    3717650.00        0.14000                    482250.00
3717750.00        0.10517
         482350.00    3717750.00        0.10942                    482450.00
3717750.00        0.11722
         482550.00    3717750.00        0.12877                    482650.00
3717750.00        0.14242
         482750.00    3717750.00        0.16117                    482850.00
3717750.00        0.17785
         482950.00    3717750.00        0.20074                    484550.00
3717750.00        0.86163
         484650.00    3717750.00        0.62108                    484750.00
3717750.00        0.47510
         484850.00    3717750.00        0.37691                    485150.00
3717750.00        0.22373
         485450.00    3717750.00        0.15316                    485550.00
3717750.00        0.13954
         485650.00    3717750.00        0.12823                    485750.00
3717750.00        0.11778
         485850.00    3717750.00        0.10904                    485950.00
3717750.00        0.10174
         486050.00    3717750.00        0.09546                    482250.00
3717850.00        0.10107
         482650.00    3717850.00        0.13741                    482750.00
3717850.00        0.15691
         482850.00    3717850.00        0.17943                    482950.00
3717850.00        0.20212
         483350.00    3717850.00        0.40343                    483450.00
3717850.00        0.52177
         484550.00    3717850.00        0.89723                    484650.00
3717850.00        0.63532
         484750.00    3717850.00        0.48281                    484850.00
3717850.00        0.38142
         484950.00    3717850.00        0.31145                    485150.00
3717850.00        0.22387
         485250.00    3717850.00        0.19497                    485450.00
3717850.00        0.15520
         485550.00    3717850.00        0.14108                    485650.00
3717850.00        0.12903
         485750.00    3717850.00        0.11829                    485850.00
3717850.00        0.10997
         485950.00    3717850.00        0.10300                    486050.00
3717850.00        0.09612
         481950.00    3717950.00        0.07292                    482250.00
3717950.00        0.09686
         482350.00    3717950.00        0.09871                    482750.00
3717950.00        0.15074
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         483350.00    3717950.00        0.40163                        483450.00
3717950.00        0.51880
         483550.00    3717950.00        0.70622                        484550.00
3717950.00        0.95645
         484650.00    3717950.00        0.67111                        484750.00
3717950.00        0.50259
         484850.00    3717950.00        0.39467                        484950.00
3717950.00        0.32002
         485350.00    3717950.00        0.17518                        485450.00
3717950.00        0.15622
         485550.00    3717950.00        0.14287                        485650.00
3717950.00        0.12953
         485750.00    3717950.00        0.11890                        485850.00
3717950.00        0.11091
         485950.00    3717950.00        0.10397                        486050.00
3717950.00        0.09724
         481950.00    3718050.00        0.07382                        482050.00
3718050.00        0.07650
         482750.00    3718050.00        0.14849                        482850.00
3718050.00        0.16930
         482950.00    3718050.00        0.18830                        483050.00
3718050.00        0.21743
         483150.00    3718050.00        0.25203                        483250.00
3718050.00        0.29945
         483350.00    3718050.00        0.37369                        483450.00
3718050.00        0.48016
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 445
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                  *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN2     ***
                                  INCLUDING SOURCE(S):     GEN2        ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                            ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
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         483550.00    3718050.00        0.66918                    483650.00
3718050.00        0.97827
         484550.00    3718050.00        1.04213                    484650.00
3718050.00        0.72209
         485450.00    3718050.00        0.15960                    485550.00
3718050.00        0.14387
         485650.00    3718050.00        0.13040                    485750.00
3718050.00        0.11951
         485850.00    3718050.00        0.11088                    485950.00
3718050.00        0.10370
         486050.00    3718050.00        0.09722                    481950.00
3718150.00        0.07604
         482050.00    3718150.00        0.07783                    482150.00
3718150.00        0.08093
         482250.00    3718150.00        0.08740                    482350.00
3718150.00        0.09506
         482650.00    3718150.00        0.12895                    482750.00
3718150.00        0.14510
         482850.00    3718150.00        0.15360                    482950.00
3718150.00        0.17174
         483050.00    3718150.00        0.19701                    483150.00
3718150.00        0.23341
         483350.00    3718150.00        0.34633                    483450.00
3718150.00        0.44104
         483550.00    3718150.00        0.58961                    483650.00
3718150.00        0.83684
         484550.00    3718150.00        1.04683                    484650.00
3718150.00        0.75618
         485250.00    3718150.00        0.20694                    485550.00
3718150.00        0.14528
         485650.00    3718150.00        0.13191                    485750.00
3718150.00        0.12087
         481950.00    3718250.00        0.07673                    482050.00
3718250.00        0.07920
         482150.00    3718250.00        0.08152                    482250.00
3718250.00        0.08522
         482350.00    3718250.00        0.09393                    482450.00
3718250.00        0.10336
         482550.00    3718250.00        0.11252                    482650.00
3718250.00        0.12584
         482750.00    3718250.00        0.13808                    482850.00
3718250.00        0.13860
         482950.00    3718250.00        0.15123                    483250.00
3718250.00        0.25110
         484550.00    3718250.00        0.94813                    484650.00
3718250.00        0.73905
         484750.00    3718250.00        0.57553                    484850.00
3718250.00        0.45477
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         485150.00    3718250.00        0.25062                        485250.00
3718250.00        0.21454
         485650.00    3718250.00        0.13481                        481950.00
3718350.00        0.07352
         482050.00    3718350.00        0.07765                        482150.00
3718350.00        0.08023
         482250.00    3718350.00        0.08294                        482350.00
3718350.00        0.09112
         482450.00    3718350.00        0.10096                        482550.00
3718350.00        0.10952
         482650.00    3718350.00        0.11998                        482750.00
3718350.00        0.13168
         483150.00    3718350.00        0.18452                        483450.00
3718350.00        0.37790
         485250.00    3718350.00        0.22202                        485350.00
3718350.00        0.19316
         485550.00    3718350.00        0.15107                        485650.00
3718350.00        0.13884
         486150.00    3718350.00        0.09218                        486250.00
3718350.00        0.08682
         481950.00    3718450.00        0.07119                        482050.00
3718450.00        0.07568
         482150.00    3718450.00        0.07824                        482250.00
3718450.00        0.08116
         482350.00    3718450.00        0.08791                        482450.00
3718450.00        0.09686
         482550.00    3718450.00        0.10617                        482650.00
3718450.00        0.11568
         482750.00    3718450.00        0.12662                        482850.00
3718450.00        0.13424
         483350.00    3718450.00        0.27891                        484450.00
3718450.00        0.66283
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 446
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN2      ***
                                   INCLUDING SOURCE(S):     GEN2        ,

                                         *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                           ** CONC OF PM_10    IN MICROGRAMS/M**3
```

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
485150.00	3718450.00	0.26577	485250.00	3718450.00	0.22755
485350.00	3718450.00	0.19928	485750.00	3718450.00	0.12758
485850.00	3718450.00	0.11591	485950.00	3718450.00	0.10658
486050.00	3718450.00	0.09990	481950.00	3718550.00	0.06865
482050.00	3718550.00	0.07273	482150.00	3718550.00	0.07726
482250.00	3718550.00	0.08126	482350.00	3718550.00	0.08649
482450.00	3718550.00	0.09471	482550.00	3718550.00	0.10264
482650.00	3718550.00	0.11085	482750.00	3718550.00	0.12355
482850.00	3718550.00	0.13367	482950.00	3718550.00	0.14401
483550.00	3718550.00	0.35262	484650.00	3718550.00	0.47003
484750.00	3718550.00	0.43386	484850.00	3718550.00	0.39125
485850.00	3718550.00	0.11868	485950.00	3718550.00	0.10963
482050.00	3718650.00	0.07031	482150.00	3718650.00	0.07516
482250.00	3718650.00	0.08064	482350.00	3718650.00	0.08685
482450.00	3718650.00	0.09251	482550.00	3718650.00	0.09975
482650.00	3718650.00	0.10918	482750.00	3718650.00	0.11988
482850.00	3718650.00	0.13301	482950.00	3718650.00	0.14814
485150.00	3718650.00	0.25403	485450.00	3718650.00	0.18160
485550.00	3718650.00	0.16218	485650.00	3718650.00	0.14527
485850.00	3718650.00	0.12299	485950.00	3718650.00	0.11128
486050.00	3718650.00	0.10425	482050.00	3718750.00	0.06915

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         482150.00    3718750.00        0.07393                        482250.00
3718750.00        0.07827
         482350.00    3718750.00        0.08432                        482450.00
3718750.00        0.09105
         482550.00    3718750.00        0.09856                        482650.00
3718750.00        0.10701
         482750.00    3718750.00        0.11836                        482850.00
3718750.00        0.13167
         482950.00    3718750.00        0.14577                        483050.00
3718750.00        0.16339
         484950.00    3718750.00        0.28337                        485050.00
3718750.00        0.26449
         485150.00    3718750.00        0.24390                        485850.00
3718750.00        0.12577
         485950.00    3718750.00        0.11462                        486050.00
3718750.00        0.10577
         482350.00    3718850.00        0.08299                        482450.00
3718850.00        0.08965
         482550.00    3718850.00        0.09692                        482650.00
3718850.00        0.10566
         482750.00    3718850.00        0.11701                        482850.00
3718850.00        0.12980
         482950.00    3718850.00        0.14266                        483050.00
3718850.00        0.15834
         483150.00    3718850.00        0.17000                        484150.00
3718850.00        0.25223
         484250.00    3718850.00        0.25987                        485350.00
3718850.00        0.19242
         485450.00    3718850.00        0.17619                        485750.00
3718850.00        0.13698
         485850.00    3718850.00        0.12602                        485950.00
3718850.00        0.11720
         486050.00    3718850.00        0.10722                        482450.00
3718950.00        0.08829
         482550.00    3718950.00        0.09607                        482650.00
3718950.00        0.10432
         482750.00    3718950.00        0.11537                        482850.00
3718950.00        0.12660
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 447
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN2     ***
```

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
482950.00	3718950.00	0.13865	483050.00	3718950.00	0.15068
483150.00	3718950.00	0.16360	483250.00	3718950.00	0.17217
485750.00	3718950.00	0.13891	485850.00	3718950.00	0.12774
485950.00	3718950.00	0.11722	486050.00	3718950.00	0.10939
482250.00	3719050.00	0.07481	482350.00	3719050.00	0.08083
482450.00	3719050.00	0.08728	482550.00	3719050.00	0.09469
482650.00	3719050.00	0.10365	482850.00	3719050.00	0.12278
482950.00	3719050.00	0.13239	483050.00	3719050.00	0.14285
483150.00	3719050.00	0.15255	483250.00	3719050.00	0.16051
483350.00	3719050.00	0.16488	483450.00	3719050.00	0.16745
483550.00	3719050.00	0.16820	485250.00	3719050.00	0.17874
485450.00	3719050.00	0.16167	485550.00	3719050.00	0.15213
485650.00	3719050.00	0.14378	485750.00	3719050.00	0.13580
482350.00	3719150.00	0.08032	482650.00	3719150.00	0.10173
482850.00	3719150.00	0.11874	483050.00	3719150.00	0.13501
483150.00	3719150.00	0.14217	483250.00	3719150.00	0.14817
483350.00	3719150.00	0.15144	483450.00	3719150.00	0.15283
483550.00	3719150.00	0.15280	485250.00	3719150.00	0.16613

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         485550.00    3719150.00        0.14584                        485650.00
3719150.00        0.13913
         485950.00    3719150.00        0.11677                        484550.00
3719250.00        0.16154
         484750.00    3719250.00        0.16022                        484850.00
3719250.00        0.15953
         484750.00    3719350.00        0.14555                        484850.00
3719350.00        0.14458
         484950.00    3719350.00        0.14342                        485050.00
3719350.00        0.14249
         485150.00    3719350.00        0.14116                        484250.00
3719450.00        0.13113
         484350.00    3719450.00        0.13306                        484450.00
3719450.00        0.13518
         484550.00    3719450.00        0.13502                        484650.00
3719450.00        0.13401
         484750.00    3719450.00        0.13321                        484850.00
3719450.00        0.13247
         484950.00    3719450.00        0.13202                        485050.00
3719450.00        0.13137
         485150.00    3719450.00        0.12992                        485250.00
3719450.00        0.12895
         485350.00    3719450.00        0.12766                        485450.00
3719450.00        0.12515
         485550.00    3719450.00        0.12293                        484250.00
3719550.00        0.11981
         484350.00    3719550.00        0.12153                        484450.00
3719550.00        0.12348
         484550.00    3719550.00        0.12487                        484650.00
3719550.00        0.12425
         484750.00    3719550.00        0.12304                        484850.00
3719550.00        0.12243
         484950.00    3719550.00        0.12199                        485050.00
3719550.00        0.12082
         485150.00    3719550.00        0.12020                        485250.00
3719550.00        0.11906
         485350.00    3719550.00        0.11906                        485450.00
3719550.00        0.11736
         485550.00    3719550.00        0.11550                        484450.00
3719850.00        0.09976
         484550.00    3719850.00        0.10122                        484650.00
3719850.00        0.10075
         484350.00    3719950.00        0.09285                        484450.00
3719950.00        0.09292
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: GEN2 ***
INCLUDING SOURCE(S): GEN2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
484550.00	3719950.00	0.09305	484650.00	3719950.00	0.09478
483837.50	3717212.50	0.50632	483862.50	3717212.50	0.51358
483887.50	3717212.50	0.53251	483412.50	3717237.50	0.30019
483812.50	3717237.50	0.51289	483837.50	3717237.50	0.52621
483862.50	3717237.50	0.53990	483887.50	3717237.50	0.55960
483912.50	3717237.50	0.57580	483937.50	3717237.50	0.58930
483412.50	3717262.50	0.30623	483437.50	3717262.50	0.31593
483462.50	3717262.50	0.32550	483812.50	3717262.50	0.53158
483837.50	3717262.50	0.54919	483862.50	3717262.50	0.56688
483887.50	3717262.50	0.58971	483912.50	3717262.50	0.60612
483937.50	3717262.50	0.62143	483962.50	3717262.50	0.64226
483987.50	3717262.50	0.65897	483412.50	3717287.50	0.31269
483437.50	3717287.50	0.32308	483462.50	3717287.50	0.33389
483487.50	3717287.50	0.34499	483812.50	3717287.50	0.56200
483837.50	3717287.50	0.58116	483862.50	3717287.50	0.60107

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         483887.50    3717287.50        0.62460                    483912.50
3717287.50        0.64561
         483937.50    3717287.50        0.66458                    483962.50
3717287.50        0.68515
         483987.50    3717287.50        0.70402                    484012.50
3717287.50        0.72090
         483412.50    3717312.50        0.32035                    483437.50
3717312.50        0.33132
         483462.50    3717312.50        0.34280                    483487.50
3717312.50        0.35494
         483512.50    3717312.50        0.36779                    483787.50
3717312.50        0.57848
         483812.50    3717312.50        0.60081                    483837.50
3717312.50        0.62374
         483862.50    3717312.50        0.64705                    483887.50
3717312.50        0.67084
         483912.50    3717312.50        0.69392                    483937.50
3717312.50        0.71460
         483962.50    3717312.50        0.73628                    483987.50
3717312.50        0.75667
         484012.50    3717312.50        0.77505                    484037.50
3717312.50        0.79047
         484562.50    3717312.50        0.54613                    484587.50
3717312.50        0.52671
         484612.50    3717312.50        0.50579                    484637.50
3717312.50        0.48506
         484662.50    3717312.50        0.46394                    484687.50
3717312.50        0.44398
         484712.50    3717312.50        0.42581                    484737.50
3717312.50        0.40960
         484762.50    3717312.50        0.39356                    483412.50
3717337.50        0.32858
         483437.50    3717337.50        0.34045                    483462.50
3717337.50        0.35264
         483487.50    3717337.50        0.36610                    483512.50
3717337.50        0.38032
         483537.50    3717337.50        0.39669                    483787.50
3717337.50        0.61549
         483812.50    3717337.50        0.64424                    483837.50
3717337.50        0.67158
         483862.50    3717337.50        0.69893                    483887.50
3717337.50        0.72635
         483912.50    3717337.50        0.75213                    483937.50
3717337.50        0.77057
         483962.50    3717337.50        0.79353                    483987.50
3717337.50        0.81660
         484012.50    3717337.50        0.83570                    484037.50
3717337.50        0.85069
```

484562.50 3717337.50 0.57322 484587.50 3717337.50 0.55094

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: GEN2 ***
INCLUDING SOURCE(S): GEN2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
484612.50	3717337.50	0.52740	484637.50	3717337.50	0.50329
484662.50	3717337.50	0.48033	484687.50	3717337.50	0.45921
484712.50	3717337.50	0.43939	484737.50	3717337.50	0.42212
484762.50	3717337.50	0.40451	483412.50	3717362.50	0.33664
483437.50	3717362.50	0.34913	483462.50	3717362.50	0.36299
483487.50	3717362.50	0.37792	483512.50	3717362.50	0.39381
483537.50	3717362.50	0.41227	483787.50	3717362.50	0.65276
483812.50	3717362.50	0.68821	483837.50	3717362.50	0.72179
483862.50	3717362.50	0.75660	483887.50	3717362.50	0.79094
483912.50	3717362.50	0.81900	483937.50	3717362.50	0.83858
483962.50	3717362.50	0.85607	483987.50	3717362.50	0.88120
484012.50	3717362.50	0.90217	484037.50	3717362.50	0.91808

```
         484562.50    3717362.50        0.59862                    484587.50
3717362.50        0.57358
         484612.50    3717362.50        0.54778                    484637.50
3717362.50        0.52180
         484662.50    3717362.50        0.49670                    484687.50
3717362.50        0.47203
         484712.50    3717362.50        0.45181                    484737.50
3717362.50        0.43323
         484762.50    3717362.50        0.41436                    484787.50
3717362.50        0.39495
         483412.50    3717387.50        0.34412                    483437.50
3717387.50        0.35862
         483462.50    3717387.50        0.37409                    483487.50
3717387.50        0.39026
         483512.50    3717387.50        0.40782                    483537.50
3717387.50        0.42757
         483562.50    3717387.50        0.44804                    483787.50
3717387.50        0.69169
         483812.50    3717387.50        0.73057                    483837.50
3717387.50        0.77004
         483862.50    3717387.50        0.81438                    483887.50
3717387.50        0.85743
         483912.50    3717387.50        0.88655                    483937.50
3717387.50        0.90690
         483962.50    3717387.50        0.92735                    483987.50
3717387.50        0.95323
         484012.50    3717387.50        0.97557                    484037.50
3717387.50        0.99369
         484062.50    3717387.50        1.00663                    484562.50
3717387.50        0.62428
         484587.50    3717387.50        0.59593                    484612.50
3717387.50        0.56796
         484637.50    3717387.50        0.53979                    484662.50
3717387.50        0.51302
         484687.50    3717387.50        0.48768                    484712.50
3717387.50        0.46501
         484737.50    3717387.50        0.44332                    484762.50
3717387.50        0.42219
         484787.50    3717387.50        0.40143                    483412.50
3717412.50        0.35304
         483437.50    3717412.50        0.36894                    483462.50
3717412.50        0.38613
         483487.50    3717412.50        0.40403                    483512.50
3717412.50        0.42308
         483537.50    3717412.50        0.44380                    483562.50
3717412.50        0.46612
         483787.50    3717412.50        0.73366                    483812.50
3717412.50        0.77380
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         483837.50    3717412.50        0.81661                       483862.50
3717412.50        0.86438
         483887.50    3717412.50        0.90979                       483912.50
3717412.50        0.94730
         483937.50    3717412.50        0.97814                       483962.50
3717412.50        1.00651
         483987.50    3717412.50        1.03484                       484012.50
3717412.50        1.05930
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 450
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                  *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN2     ***
                                  INCLUDING SOURCE(S):     GEN2        ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         484037.50    3717412.50        1.07982                       484062.50
3717412.50        1.09320
         484487.50    3717412.50        0.74106                       484512.50
3717412.50        0.70993
         484537.50    3717412.50        0.67904                       484562.50
3717412.50        0.64851
         484587.50    3717412.50        0.61836                       484612.50
3717412.50        0.58855
         484637.50    3717412.50        0.55805                       484662.50
3717412.50        0.52851
         484687.50    3717412.50        0.50248                       484712.50
3717412.50        0.47715
         484737.50    3717412.50        0.45243                       484762.50
3717412.50        0.42943
         484787.50    3717412.50        0.40772                       483412.50
3717437.50        0.36326
         483437.50    3717437.50        0.38041                       483462.50
3717437.50        0.39898
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         483487.50    3717437.50        0.41832                    483512.50
3717437.50        0.43882
         483537.50    3717437.50        0.46089                    483562.50
3717437.50        0.48469
         483587.50    3717437.50        0.50953                    483837.50
3717437.50        0.86678
         483862.50    3717437.50        0.91230                    483887.50
3717437.50        0.96029
         483912.50    3717437.50        1.01416                    483937.50
3717437.50        1.05813
         483962.50    3717437.50        1.09643                    483987.50
3717437.50        1.12897
         484012.50    3717437.50        1.15657                    484037.50
3717437.50        1.18028
         484062.50    3717437.50        1.19845                    484487.50
3717437.50        0.77931
         484512.50    3717437.50        0.74203                    484537.50
3717437.50        0.70616
         484562.50    3717437.50        0.67190                    484587.50
3717437.50        0.63952
         484612.50    3717437.50        0.60862                    484637.50
3717437.50        0.57716
         484662.50    3717437.50        0.54550                    484687.50
3717437.50        0.51592
         484712.50    3717437.50        0.48724                    484737.50
3717437.50        0.46072
         484762.50    3717437.50        0.43634                    483412.50
3717462.50        0.37357
         483437.50    3717462.50        0.39179                    483462.50
3717462.50        0.41129
         483487.50    3717462.50        0.43229                    483512.50
3717462.50        0.45451
         483537.50    3717462.50        0.47867                    483562.50
3717462.50        0.50413
         483587.50    3717462.50        0.53108                    483887.50
3717462.50        1.05089
         483912.50    3717462.50        1.11108                    483937.50
3717462.50        1.16166
         483962.50    3717462.50        1.20703                    483987.50
3717462.50        1.24621
         484012.50    3717462.50        1.28014                    484037.50
3717462.50        1.30751
         484062.50    3717462.50        1.32695                    484487.50
3717462.50        0.81718
         484512.50    3717462.50        0.77449                    484537.50
3717462.50        0.73270
         484562.50    3717462.50        0.69360                    484587.50
3717462.50        0.65774
```

484612.50	3717462.50	0.62564	484637.50	3717462.50	0.59172
484662.50	3717462.50	0.55886	484687.50	3717462.50	0.52802
484712.50	3717462.50	0.49563	484737.50	3717462.50	0.46796
484762.50	3717462.50	0.44265	483412.50	3717487.50	0.38365
483437.50	3717487.50	0.40289	483462.50	3717487.50	0.42371
483487.50	3717487.50	0.44615	483512.50	3717487.50	0.47037
483537.50	3717487.50	0.49648	483562.50	3717487.50	0.52418

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: GEN2 ***
INCLUDING SOURCE(S): GEN2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
483587.50	3717487.50	0.55359	483612.50	3717487.50	0.58481
483912.50	3717487.50	1.23102	483937.50	3717487.50	1.28970
483962.50	3717487.50	1.34434	483987.50	3717487.50	1.39441
484012.50	3717487.50	1.43643	484037.50	3717487.50	1.46746
484062.50	3717487.50	1.48734	484537.50	3717487.50	0.75886
484562.50	3717487.50	0.71454	484587.50	3717487.50	0.67390

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         484612.50    3717487.50        0.63851                    484637.50
3717487.50        0.60496
         484662.50    3717487.50        0.56819                    484687.50
3717487.50        0.53797
         484712.50    3717487.50        0.50425                    484737.50
3717487.50        0.47473
         484762.50    3717487.50        0.44839                    483412.50
3717512.50        0.39388
         483437.50    3717512.50        0.41592                    483462.50
3717512.50        0.43856
         483487.50    3717512.50        0.46163                    483512.50
3717512.50        0.48667
         483537.50    3717512.50        0.51460                    483562.50
3717512.50        0.54516
         483587.50    3717512.50        0.57785                    483612.50
3717512.50        0.61226
         483912.50    3717512.50        1.37049                    483937.50
3717512.50        1.44521
         483962.50    3717512.50        1.51396                    483987.50
3717512.50        1.57334
         484012.50    3717512.50        1.62554                    484037.50
3717512.50        1.66622
         484062.50    3717512.50        1.69110                    484537.50
3717512.50        0.78358
         484562.50    3717512.50        0.73461                    484587.50
3717512.50        0.68992
         484612.50    3717512.50        0.65013                    484637.50
3717512.50        0.61381
         484662.50    3717512.50        0.57946                    484687.50
3717512.50        0.54640
         484712.50    3717512.50        0.51292                    484737.50
3717512.50        0.48136
         484762.50    3717512.50        0.45400                    483412.50
3717537.50        0.40329
         483437.50    3717537.50        0.42924                    483462.50
3717537.50        0.45477
         483487.50    3717537.50        0.47927                    483512.50
3717537.50        0.50530
         483537.50    3717537.50        0.53459                    483562.50
3717537.50        0.56688
         483587.50    3717537.50        0.60254                    483612.50
3717537.50        0.64117
         483637.50    3717537.50        0.68329                    483937.50
3717537.50        1.63446
         483962.50    3717537.50        1.71764                    483987.50
3717537.50        1.79092
         484012.50    3717537.50        1.85562                    484037.50
3717537.50        1.90815
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         484062.50    3717537.50        1.94068                        483412.50
3717562.50        0.41131
         483437.50    3717562.50        0.43857                        483462.50
3717562.50        0.46633
         483487.50    3717562.50        0.49430                        483512.50
3717562.50        0.52363
         483537.50    3717562.50        0.55504                        483562.50
3717562.50        0.59001
         483587.50    3717562.50        0.62814                        483612.50
3717562.50        0.67014
         483637.50    3717562.50        0.71677                        483937.50
3717562.50        1.85936
         483962.50    3717562.50        1.96663                        483987.50
3717562.50        2.05766
         484012.50    3717562.50        2.14173                        484037.50
3717562.50        2.20789
         484062.50    3717562.50        2.25473                        483412.50
3717587.50        0.41843
         483437.50    3717587.50        0.44614                        483462.50
3717587.50        0.47577
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 452
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN2     ***
                                  INCLUDING SOURCE(S):     GEN2        ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         483487.50    3717587.50        0.50645                        483512.50
3717587.50        0.53988
         483537.50    3717587.50        0.57532                        483562.50
3717587.50        0.61368
         483587.50    3717587.50        0.65519                        483612.50
3717587.50        0.69944
```

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         483637.50    3717587.50        0.75049                    484512.50
3717612.50        0.93066
         484537.50    3717612.50        0.85657                    484562.50
3717612.50        0.79241
         484587.50    3717612.50        0.73403                    484612.50
3717612.50        0.68186
         484637.50    3717612.50        0.63581                    484662.50
3717612.50        0.59393
         484687.50    3717612.50        0.55623                    484712.50
3717612.50        0.52168
         484737.50    3717612.50        0.48877                    484762.50
3717612.50        0.45897
         484787.50    3717612.50        0.43232                    484812.50
3717612.50        0.40805
         484837.50    3717612.50        0.38409                    484862.50
3717612.50        0.36384
         484512.50    3717637.50        0.94950                    484537.50
3717637.50        0.86950
         484562.50    3717637.50        0.80036                    484587.50
3717637.50        0.74020
         484612.50    3717637.50        0.68661                    484637.50
3717637.50        0.63827
         484662.50    3717637.50        0.59578                    484687.50
3717637.50        0.55710
         484712.50    3717637.50        0.52192                    484737.50
3717637.50        0.48902
         484762.50    3717637.50        0.45907                    484787.50
3717637.50        0.43279
         484812.50    3717637.50        0.40907                    484837.50
3717637.50        0.38669
         484862.50    3717637.50        0.36585                    484512.50
3717662.50        0.96146
         484537.50    3717662.50        0.87891                    484562.50
3717662.50        0.80668
         484587.50    3717662.50        0.74432                    484612.50
3717662.50        0.68925
         484637.50    3717662.50        0.63980                    484662.50
3717662.50        0.59600
         484687.50    3717662.50        0.55776                    484712.50
3717662.50        0.52301
         484737.50    3717662.50        0.49123                    484762.50
3717662.50        0.46140
         484787.50    3717662.50        0.43851                    484812.50
3717662.50        0.41461
         484837.50    3717662.50        0.38952                    484862.50
3717662.50        0.36754
         484512.50    3717687.50        0.97302                    484537.50
3717687.50        0.88606
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         484562.50    3717687.50        0.81240                        484587.50
3717687.50        0.74754
         484612.50    3717687.50        0.69072                        484637.50
3717687.50        0.64061
         484662.50    3717687.50        0.59630                        484687.50
3717687.50        0.55791
         484712.50    3717687.50        0.52289                        484737.50
3717687.50        0.49165
         484762.50    3717687.50        0.46467                        484787.50
3717687.50        0.44110
         484812.50    3717687.50        0.41875                        484837.50
3717687.50        0.39453
         484862.50    3717687.50        0.36902                        484512.50
3717712.50        0.98583
         484537.50    3717712.50        0.89392                        484562.50
3717712.50        0.81611
         484587.50    3717712.50        0.74998                        484612.50
3717712.50        0.69245
         484637.50    3717712.50        0.64197                        484662.50
3717712.50        0.59706
         484687.50    3717712.50        0.55759                        484712.50
3717712.50        0.52213
         484737.50    3717712.50        0.49067                        484762.50
3717712.50        0.46258
         484787.50    3717712.50        0.43706                        484812.50
3717712.50        0.41452
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 453
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                  *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN2     ***
                                  INCLUDING SOURCE(S):     GEN2        ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
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```
         484837.50    3717712.50        0.39250                    484862.50
3717712.50        0.36978
         484512.50    3717737.50        0.99082                    484537.50
3717737.50        0.89922
         484562.50    3717737.50        0.82106                    484587.50
3717737.50        0.75370
         484612.50    3717737.50        0.69522                    484637.50
3717737.50        0.64365
         484662.50    3717737.50        0.59788                    484687.50
3717737.50        0.55724
         484712.50    3717737.50        0.52128                    484737.50
3717737.50        0.48956
         484762.50    3717737.50        0.46108                    484787.50
3717737.50        0.43466
         484812.50    3717737.50        0.41044                    484837.50
3717737.50        0.38836
         484862.50    3717737.50        0.36812                    484512.50
3717762.50        0.99865
         484537.50    3717762.50        0.90653                    484562.50
3717762.50        0.82708
         484587.50    3717762.50        0.75954                    484612.50
3717762.50        0.69936
         484637.50    3717762.50        0.64591                    484662.50
3717762.50        0.59946
         484687.50    3717762.50        0.55808                    484712.50
3717762.50        0.52174
         484737.50    3717762.50        0.48968                    484762.50
3717762.50        0.46121
         484787.50    3717762.50        0.43429                    484812.50
3717762.50        0.40891
         484837.50    3717762.50        0.38623                    484862.50
3717762.50        0.36592
         484512.50    3717787.50        1.00680                    484537.50
3717787.50        0.91410
         484562.50    3717787.50        0.83720                    484587.50
3717787.50        0.76677
         484612.50    3717787.50        0.70355                    484637.50
3717787.50        0.64903
         484662.50    3717787.50        0.60175                    484687.50
3717787.50        0.56030
         484712.50    3717787.50        0.52382                    484737.50
3717787.50        0.49196
         484762.50    3717787.50        0.46249                    484787.50
3717787.50        0.43522
         484812.50    3717787.50        0.40964                    484837.50
3717787.50        0.38594
         484862.50    3717787.50        0.36583                    483412.50
3717812.50        0.46838
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         483437.50    3717812.50        0.50034                        483462.50
3717812.50        0.53635
         483487.50    3717812.50        0.57780                        484512.50
3717812.50        1.01677
         484537.50    3717812.50        0.92743                        484562.50
3717812.50        0.84722
         484587.50    3717812.50        0.77478                        484612.50
3717812.50        0.70885
         484637.50    3717812.50        0.65235                        484662.50
3717812.50        0.60466
         484687.50    3717812.50        0.56312                        484712.50
3717812.50        0.52662
         484737.50    3717812.50        0.49406                        484762.50
3717812.50        0.46455
         484787.50    3717812.50        0.43689                        484812.50
3717812.50        0.41146
         484837.50    3717812.50        0.38808                        484862.50
3717812.50        0.36773
         483412.50    3717837.50        0.47059                        483437.50
3717837.50        0.50290
         483462.50    3717837.50        0.53943                        483487.50
3717837.50        0.58166
         483512.50    3717837.50        0.63023                        484512.50
3717837.50        1.02843
         484537.50    3717837.50        0.93545                        484562.50
3717837.50        0.85343
         484587.50    3717837.50        0.78120                        484612.50
3717837.50        0.71511
         484637.50    3717837.50        0.65763                        484662.50
3717837.50        0.60895
         484687.50    3717837.50        0.56708                        484712.50
3717837.50        0.53039
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***       09:53:15

                                   PAGE 454
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN2      ***
                                   INCLUDING SOURCE(S):     GEN2        ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                               ** CONC OF PM_10    IN MICROGRAMS/M**3
```

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
484737.50	3717837.50	0.49709	484762.50	3717837.50	0.46680
484787.50	3717837.50	0.43925	484812.50	3717837.50	0.41383
484837.50	3717837.50	0.39092	484862.50	3717837.50	0.36993
483412.50	3717862.50	0.47183	483437.50	3717862.50	0.50469
483462.50	3717862.50	0.54237	483487.50	3717862.50	0.58533
483512.50	3717862.50	0.63380	484512.50	3717862.50	1.04011
484537.50	3717862.50	0.94488	484562.50	3717862.50	0.86115
484587.50	3717862.50	0.78782	484612.50	3717862.50	0.72213
484637.50	3717862.50	0.66425	484662.50	3717862.50	0.61465
484687.50	3717862.50	0.57195	484712.50	3717862.50	0.53436
484737.50	3717862.50	0.50018	484762.50	3717862.50	0.46953
484787.50	3717862.50	0.44196	484812.50	3717862.50	0.41668
484837.50	3717862.50	0.39343	484862.50	3717862.50	0.37261
483412.50	3717887.50	0.47221	483437.50	3717887.50	0.50563
483462.50	3717887.50	0.54460	483487.50	3717887.50	0.58858
483512.50	3717887.50	0.63757	483537.50	3717887.50	0.69308
484512.50	3717887.50	1.05739	484537.50	3717887.50	0.95539
484562.50	3717887.50	0.87008	484587.50	3717887.50	0.79574
484612.50	3717887.50	0.72992	484637.50	3717887.50	0.67251
484662.50	3717887.50	0.62177	484687.50	3717887.50	0.57828
484712.50	3717887.50	0.53939	484737.50	3717887.50	0.50439

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         484762.50    3717887.50        0.47319                        484787.50
3717887.50        0.44517
         484812.50    3717887.50        0.41987                        484837.50
3717887.50        0.39645
         484862.50    3717887.50        0.37528                        483412.50
3717912.50        0.47143
         483437.50    3717912.50        0.50450                        483462.50
3717912.50        0.54276
         483487.50    3717912.50        0.58348                        483512.50
3717912.50        0.62969
         483537.50    3717912.50        0.68564                        483562.50
3717912.50        0.75545
         484512.50    3717912.50        1.07876                        484537.50
3717912.50        0.97304
         484562.50    3717912.50        0.88387                        484587.50
3717912.50        0.80679
         484612.50    3717912.50        0.74044                        484637.50
3717912.50        0.68128
         484662.50    3717912.50        0.63044                        484687.50
3717912.50        0.58514
         484712.50    3717912.50        0.54528                        484737.50
3717912.50        0.50977
         484762.50    3717912.50        0.47791                        484787.50
3717912.50        0.44922
         484812.50    3717912.50        0.42341                        484837.50
3717912.50        0.40001
         484862.50    3717912.50        0.37821                        483412.50
3717937.50        0.46970
         483437.50    3717937.50        0.50237                        483462.50
3717937.50        0.53929
         483487.50    3717937.50        0.58136                        483512.50
3717937.50        0.62524
         483537.50    3717937.50        0.67935                        483562.50
3717937.50        0.74168
         483587.50    3717937.50        0.82260                        484512.50
3717937.50        1.10323
         484537.50    3717937.50        0.99435                        484562.50
3717937.50        0.90107
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 455
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN2     ***
```

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
484587.50	3717937.50	0.82197	484612.50	3717937.50	0.75266
484637.50	3717937.50	0.69243	484662.50	3717937.50	0.63964
484687.50	3717937.50	0.59367	484712.50	3717937.50	0.55254
484737.50	3717937.50	0.51599	484762.50	3717937.50	0.48354
484787.50	3717937.50	0.45418	484812.50	3717937.50	0.42768
484837.50	3717937.50	0.40380	484862.50	3717937.50	0.38195
483412.50	3717962.50	0.46736	483437.50	3717962.50	0.49968
483462.50	3717962.50	0.53590	483487.50	3717962.50	0.57701
483512.50	3717962.50	0.62462	483537.50	3717962.50	0.67819
483562.50	3717962.50	0.74058	483587.50	3717962.50	0.80952
483612.50	3717962.50	0.89002	484512.50	3717962.50	1.13002
484537.50	3717962.50	1.01751	484562.50	3717962.50	0.92106
484587.50	3717962.50	0.83889	484612.50	3717962.50	0.76724
484637.50	3717962.50	0.70527	484662.50	3717962.50	0.65070
484687.50	3717962.50	0.60334	484712.50	3717962.50	0.56114
484737.50	3717962.50	0.52316	484762.50	3717962.50	0.48963
484787.50	3717962.50	0.45964	484812.50	3717962.50	0.43258
484837.50	3717962.50	0.40804	484862.50	3717962.50	0.38574

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         483412.50    3717987.50        0.46166                        483437.50
3717987.50        0.49325
         483462.50    3717987.50        0.52870                        483487.50
3717987.50        0.57117
         483512.50    3717987.50        0.61727                        483537.50
3717987.50        0.66929
         483562.50    3717987.50        0.72835                        483587.50
3717987.50        0.79615
         483612.50    3717987.50        0.87589                        484512.50
3717987.50        1.15710
         484537.50    3717987.50        1.04151                        484562.50
3717987.50        0.94283
         484587.50    3717987.50        0.85733                        484612.50
3717987.50        0.78391
         484637.50    3717987.50        0.71899                        484662.50
3717987.50        0.66314
         484687.50    3717987.50        0.61305                        484712.50
3717987.50        0.57003
         484737.50    3717987.50        0.53151                        484762.50
3717987.50        0.49680
         484787.50    3717987.50        0.46587                        484812.50
3717987.50        0.43804
         484837.50    3717987.50        0.41297                        484862.50
3717987.50        0.39026
         483412.50    3718012.50        0.45003                        483437.50
3718012.50        0.48158
         483462.50    3718012.50        0.51538                        483487.50
3718012.50        0.55654
         483512.50    3718012.50        0.60567                        483537.50
3718012.50        0.66017
         483562.50    3718012.50        0.71847                        483587.50
3718012.50        0.78564
         483612.50    3718012.50        0.86521                        483637.50
3718012.50        0.95170
         484512.50    3718012.50        1.18228                        484537.50
3718012.50        1.06631
         484562.50    3718012.50        0.96519                        484587.50
3718012.50        0.87706
         484612.50    3718012.50        0.80013                        484637.50
3718012.50        0.73280
         484662.50    3718012.50        0.67482                        484687.50
3718012.50        0.62427
         484712.50    3718012.50        0.57983                        484737.50
3718012.50        0.54016
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: GEN2 ***
INCLUDING SOURCE(S): GEN2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
484762.50	3718012.50	0.50466	484787.50	3718012.50	0.47280
484812.50	3718012.50	0.44434	484837.50	3718012.50	0.41853
484862.50	3718012.50	0.39531	483412.50	3718037.50	0.43918
483437.50	3718037.50	0.46948	483462.50	3718037.50	0.50298
483487.50	3718037.50	0.54316	483512.50	3718037.50	0.58921
483537.50	3718037.50	0.64618	483562.50	3718037.50	0.70683
483587.50	3718037.50	0.77279	483612.50	3718037.50	0.84363
483637.50	3718037.50	0.93882	483662.50	3718037.50	1.04338
484512.50	3718037.50	1.20371	484537.50	3718037.50	1.08650
484562.50	3718037.50	0.98415	484587.50	3718037.50	0.89450
484612.50	3718037.50	0.81561	484637.50	3718037.50	0.74728
484662.50	3718037.50	0.68712	484687.50	3718037.50	0.63566
484712.50	3718037.50	0.58934	484737.50	3718037.50	0.54913
484762.50	3718037.50	0.51257	484787.50	3718037.50	0.48023
484812.50	3718037.50	0.45090	484837.50	3718037.50	0.42443

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         484862.50    3718037.50        0.40047                    483412.50
3718062.50        0.42912
         483437.50    3718062.50        0.45850                    483462.50
3718062.50        0.49169
         483487.50    3718062.50        0.52990                    483512.50
3718062.50        0.57580
         483537.50    3718062.50        0.62963                    483562.50
3718062.50        0.69342
         483587.50    3718062.50        0.74955                    483612.50
3718062.50        0.82127
         483637.50    3718062.50        0.91708                    483662.50
3718062.50        1.01918
         484512.50    3718062.50        1.21675                    484537.50
3718062.50        1.10109
         484562.50    3718062.50        0.99903                    484587.50
3718062.50        0.90819
         484612.50    3718062.50        0.82933                    484637.50
3718062.50        0.75914
         484662.50    3718062.50        0.69842                    484687.50
3718062.50        0.64540
         483412.50    3718087.50        0.41732                    483437.50
3718087.50        0.44494
         483462.50    3718087.50        0.47867                    483487.50
3718087.50        0.51786
         483512.50    3718087.50        0.56116                    483537.50
3718087.50        0.61401
         483562.50    3718087.50        0.67114                    483587.50
3718087.50        0.73121
         483612.50    3718087.50        0.80879                    483637.50
3718087.50        0.88944
         483662.50    3718087.50        0.97226                    484512.50
3718087.50        1.21930
         484537.50    3718087.50        1.10728                    484562.50
3718087.50        1.00811
         484587.50    3718087.50        0.91953                    484612.50
3718087.50        0.84094
         484637.50    3718087.50        0.77097                    484662.50
3718087.50        0.70894
         484687.50    3718087.50        0.65501                    483412.50
3718112.50        0.40617
         483437.50    3718112.50        0.43383                    483462.50
3718112.50        0.46844
         483487.50    3718112.50        0.50601                    483512.50
3718112.50        0.54712
         483537.50    3718112.50        0.59430                    483562.50
3718112.50        0.64668
         483587.50    3718112.50        0.71515                    483612.50
3718112.50        0.78090
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         483637.50    3718112.50        0.85326                       483662.50
3718112.50        0.93435
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                   PAGE 457
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN2      ***
                                   INCLUDING SOURCE(S):     GEN2        ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
         483687.50    3718112.50        1.02959                       484512.50
3718112.50        1.21311
         484537.50    3718112.50        1.10604                       484562.50
3718112.50        1.01083
         484587.50    3718112.50        0.92496                       484612.50
3718112.50        0.84830
         484637.50    3718112.50        0.77903                       484662.50
3718112.50        0.71789
         484687.50    3718112.50        0.66367                       483412.50
3718137.50        0.40054
         483437.50    3718137.50        0.42708                       483462.50
3718137.50        0.46085
         483487.50    3718137.50        0.49500                       483512.50
3718137.50        0.53364
         483537.50    3718137.50        0.57533                       483562.50
3718137.50        0.62363
         483587.50    3718137.50        0.67927                       483612.50
3718137.50        0.74272
         483637.50    3718137.50        0.81319                       483662.50
3718137.50        0.89702
         483687.50    3718137.50        0.98930                       484512.50
3718137.50        1.19832
         484537.50    3718137.50        1.09798                       484562.50
3718137.50        1.00810
```

```
         484587.50    3718137.50        0.92682                    484612.50
3718137.50        0.85221
         484637.50    3718137.50        0.78480                    484662.50
3718137.50        0.72498
         484687.50    3718137.50        0.67152                    483412.50
3718162.50        0.39687
         483437.50    3718162.50        0.42217                    483462.50
3718162.50        0.45179
         483487.50    3718162.50        0.48444                    483512.50
3718162.50        0.52150
         483537.50    3718162.50        0.56250                    483562.50
3718162.50        0.60507
         483587.50    3718162.50        0.65436                    483612.50
3718162.50        0.71235
         483637.50    3718162.50        0.78374                    483662.50
3718162.50        0.86055
         483687.50    3718162.50        0.94716                    484512.50
3718162.50        1.17384
         484537.50    3718162.50        1.08299                    484562.50
3718162.50        0.99864
         484587.50    3718162.50        0.92190                    484612.50
3718162.50        0.85145
         484637.50    3718162.50        0.78734                    484662.50
3718162.50        0.72943
         484687.50    3718162.50        0.67738                    484712.50
3718162.50        0.63013
         484737.50    3718162.50        0.58762                    484762.50
3718162.50        0.54888
         484787.50    3718162.50        0.51365                    484812.50
3718162.50        0.48189
         484837.50    3718162.50        0.45275                    484862.50
3718162.50        0.42598
         483412.50    3718187.50        0.39071                    483437.50
3718187.50        0.41275
         483462.50    3718187.50        0.44235                    483487.50
3718187.50        0.47507
         483512.50    3718187.50        0.51052                    483537.50
3718187.50        0.55212
         483562.50    3718187.50        0.59205                    484512.50
3718187.50        1.14125
         484537.50    3718187.50        1.05925                    484562.50
3718187.50        0.98323
         484587.50    3718187.50        0.91257                    484612.50
3718187.50        0.84647
         484637.50    3718187.50        0.78594                    484662.50
3718187.50        0.73031
         484687.50    3718187.50        0.67998                    484712.50
3718187.50        0.63415
```

484737.50 3718187.50 0.59216 484762.50 3718187.50 0.55393
484787.50 3718187.50 0.51911 484812.50 3718187.50 0.48723
484837.50 3718187.50 0.45802 484862.50 3718187.50 0.43203
484162.50 3718212.50 1.81106 484187.50 3718212.50 1.82891

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: GEN2 ***
INCLUDING SOURCE(S): GEN2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
484212.50	3718212.50	1.83837	484512.50	3718212.50	1.10203
484537.50	3718212.50	1.03013	484562.50	3718212.50	0.96190
484587.50	3718212.50	0.89710	484612.50	3718212.50	0.83649
484637.50	3718212.50	0.77979	484662.50	3718212.50	0.72746
484687.50	3718212.50	0.67941	484712.50	3718212.50	0.63515
484737.50	3718212.50	0.59461	484762.50	3718212.50	0.55727
484787.50	3718212.50	0.52284	484812.50	3718212.50	0.49122
484837.50	3718212.50	0.46339	484862.50	3718212.50	0.43760
484512.50	3718237.50	1.05796	484537.50	3718237.50	0.99548

```
         484562.50    3718237.50        0.93516                    484587.50
3718237.50        0.87705
         484612.50    3718237.50        0.82204                    484637.50
3718237.50        0.76952
         484662.50    3718237.50        0.72079                    484687.50
3718237.50        0.67544
         484712.50    3718237.50        0.63337                    484737.50
3718237.50        0.59455
         484762.50    3718237.50        0.55834                    484787.50
3718237.50        0.52496
         484812.50    3718237.50        0.49440                    484837.50
3718237.50        0.46675
         484862.50    3718237.50        0.44095                    483412.50
3718262.50        0.36470
         483437.50    3718262.50        0.38611                    484137.50
3718262.50        1.36348
         484162.50    3718262.50        1.38268                    484212.50
3718262.50        1.41038
         484512.50    3718262.50        1.00979                    484537.50
3718262.50        0.95678
         484562.50    3718262.50        0.90417                    484587.50
3718262.50        0.85278
         484612.50    3718262.50        0.80308                    484637.50
3718262.50        0.75560
         484662.50    3718262.50        0.71054                    484687.50
3718262.50        0.66785
         484712.50    3718262.50        0.62860                    484737.50
3718262.50        0.59187
         484762.50    3718262.50        0.55752                    484787.50
3718262.50        0.52521
         484812.50    3718262.50        0.49580                    484837.50
3718262.50        0.46854
         484862.50    3718262.50        0.44324                    483412.50
3718287.50        0.36098
         483437.50    3718287.50        0.38060                    484212.50
3718287.50        1.24454
         484512.50    3718287.50        0.95904                    484537.50
3718287.50        0.91471
         484562.50    3718287.50        0.86935                    484587.50
3718287.50        0.82455
         484612.50    3718287.50        0.78062                    484637.50
3718287.50        0.73805
         484662.50    3718287.50        0.69711                    484687.50
3718287.50        0.65748
         484712.50    3718287.50        0.62072                    484737.50
3718287.50        0.58635
         484762.50    3718287.50        0.55395                    484787.50
3718287.50        0.52350
```

```
         484812.50    3718287.50        0.49495                        484837.50
3718287.50        0.46855
         484862.50    3718287.50        0.44407                        483412.50
3718312.50        0.35300
         483437.50    3718312.50        0.37134                        484187.50
3718312.50        1.09747
         483412.50    3718337.50        0.34762                        483437.50
3718337.50        0.36695
         484187.50    3718337.50        0.98198                        483412.50
3718412.50        0.32885
         483437.50    3718412.50        0.35061                        483412.50
3718437.50        0.32166
         483437.50    3718437.50        0.34250                        484462.50
3718462.50        0.63901
```

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: GEN3 ***

INCLUDING SOURCE(S): GEN3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
481950.00	3715450.00	0.05059	482050.00	3715450.00	0.05183
482150.00	3715450.00	0.05272	482250.00	3715450.00	0.05455
482350.00	3715450.00	0.05617	482450.00	3715450.00	0.05718
482550.00	3715450.00	0.05860	482650.00	3715450.00	0.06025
482750.00	3715450.00	0.06209	482850.00	3715450.00	0.06408
482950.00	3715450.00	0.06572	483050.00	3715450.00	0.06763
483150.00	3715450.00	0.06931	483250.00	3715450.00	0.07074
483350.00	3715450.00	0.07216	483450.00	3715450.00	0.07336
483550.00	3715450.00	0.07451	483650.00	3715450.00	0.07510
483750.00	3715450.00	0.07615	483850.00	3715450.00	0.07708
483950.00	3715450.00	0.07765	484050.00	3715450.00	0.07793
484150.00	3715450.00	0.07790	484250.00	3715450.00	0.07812
484350.00	3715450.00	0.07874	484450.00	3715450.00	0.07915
481950.00	3715550.00	0.05174	482050.00	3715550.00	0.05322
482150.00	3715550.00	0.05424	482250.00	3715550.00	0.05602
482350.00	3715550.00	0.05727	482550.00	3715550.00	0.06056
482650.00	3715550.00	0.06234	482750.00	3715550.00	0.06408

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         482850.00    3715550.00        0.06595                    482950.00
3715550.00        0.06811
         483050.00    3715550.00        0.07033                    483150.00
3715550.00        0.07226
         483250.00    3715550.00        0.07397                    483350.00
3715550.00        0.07543
         483450.00    3715550.00        0.07675                    483550.00
3715550.00        0.07805
         483650.00    3715550.00        0.07908                    483750.00
3715550.00        0.07989
         483850.00    3715550.00        0.08120                    483950.00
3715550.00        0.08187
         484050.00    3715550.00        0.08237                    484250.00
3715550.00        0.08255
         484350.00    3715550.00        0.08237                    484450.00
3715550.00        0.08263
         484550.00    3715550.00        0.08341                    484950.00
3715550.00        0.08503
         485050.00    3715550.00        0.08384                    481950.00
3715650.00        0.05303
         482050.00    3715650.00        0.05454                    482150.00
3715650.00        0.05617
         482250.00    3715650.00        0.05750                    482350.00
3715650.00        0.05887
         482450.00    3715650.00        0.06077                    482650.00
3715650.00        0.06453
         482750.00    3715650.00        0.06675                    482850.00
3715650.00        0.06862
         482950.00    3715650.00        0.07035                    483050.00
3715650.00        0.07275
         483150.00    3715650.00        0.07526                    483250.00
3715650.00        0.07748
         483350.00    3715650.00        0.07926                    483450.00
3715650.00        0.08068
         483550.00    3715650.00        0.08223                    483650.00
3715650.00        0.08301
         483750.00    3715650.00        0.08460                    483850.00
3715650.00        0.08493
         483950.00    3715650.00        0.08643                    484050.00
3715650.00        0.08632
         484150.00    3715650.00        0.08654                    484350.00
3715650.00        0.08758
         484450.00    3715650.00        0.08688                    484550.00
3715650.00        0.08728
         484650.00    3715650.00        0.08745                    484750.00
3715650.00        0.08809
```

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: GEN3 ***
INCLUDING SOURCE(S): GEN3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
484950.00	3715650.00	0.09073	485050.00	3715650.00	0.09020
481950.00	3715750.00	0.05427	482050.00	3715750.00	0.05592
482150.00	3715750.00	0.05729	482250.00	3715750.00	0.05883
482350.00	3715750.00	0.06086	482450.00	3715750.00	0.06284
482550.00	3715750.00	0.06514	482750.00	3715750.00	0.06892
482850.00	3715750.00	0.07197	482950.00	3715750.00	0.07362
483050.00	3715750.00	0.07616	483150.00	3715750.00	0.07893
483250.00	3715750.00	0.08102	483350.00	3715750.00	0.08326
483450.00	3715750.00	0.08472	483550.00	3715750.00	0.08670
483650.00	3715750.00	0.08778	483750.00	3715750.00	0.08920
483850.00	3715750.00	0.09012	483950.00	3715750.00	0.09106
484050.00	3715750.00	0.09193	484150.00	3715750.00	0.09178
484250.00	3715750.00	0.09151	484550.00	3715750.00	0.09151
484650.00	3715750.00	0.09130	484750.00	3715750.00	0.09118

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         484850.00    3715750.00        0.09054                    484950.00
3715750.00        0.09018
         485050.00    3715750.00        0.08963                    481950.00
3715850.00        0.05573
         482050.00    3715850.00        0.05753                    482150.00
3715850.00        0.05879
         482250.00    3715850.00        0.06101                    482350.00
3715850.00        0.06285
         482450.00    3715850.00        0.06514                    482550.00
3715850.00        0.06726
         482650.00    3715850.00        0.06965                    482750.00
3715850.00        0.07220
         482850.00    3715850.00        0.07467                    482950.00
3715850.00        0.07711
         483050.00    3715850.00        0.07935                    483150.00
3715850.00        0.08255
         483350.00    3715850.00        0.08748                    483450.00
3715850.00        0.08948
         483550.00    3715850.00        0.09152                    483650.00
3715850.00        0.09304
         483750.00    3715850.00        0.09507                    483850.00
3715850.00        0.09607
         483950.00    3715850.00        0.09655                    484050.00
3715850.00        0.09779
         484150.00    3715850.00        0.09773                    484250.00
3715850.00        0.09743
         484550.00    3715850.00        0.09745                    484650.00
3715850.00        0.09650
         484750.00    3715850.00        0.09577                    484850.00
3715850.00        0.09492
         485150.00    3715850.00        0.09260                    485250.00
3715850.00        0.09419
         481950.00    3715950.00        0.05717                    482050.00
3715950.00        0.05866
         482150.00    3715950.00        0.06068                    482250.00
3715950.00        0.06302
         482350.00    3715950.00        0.06508                    482450.00
3715950.00        0.06722
         482550.00    3715950.00        0.06980                    482650.00
3715950.00        0.07211
         482750.00    3715950.00        0.07460                    482850.00
3715950.00        0.07752
         482950.00    3715950.00        0.08081                    483050.00
3715950.00        0.08373
         483350.00    3715950.00        0.09218                    483450.00
3715950.00        0.09492
         483550.00    3715950.00        0.09680                    483650.00
3715950.00        0.09879
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         483750.00    3715950.00        0.10041                        483850.00
3715950.00        0.10260
         483950.00    3715950.00        0.10272                        484050.00
3715950.00        0.10407
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 462
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                  *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN3     ***
                                  INCLUDING SOURCE(S):     GEN3        ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         484150.00    3715950.00        0.10467                        484250.00
3715950.00        0.10426
         484850.00    3715950.00        0.10032                        485150.00
3715950.00        0.09757
         485250.00    3715950.00        0.10059                        481950.00
3716050.00        0.05867
         482050.00    3716050.00        0.06043                        482150.00
3716050.00        0.06257
         482250.00    3716050.00        0.06490                        482350.00
3716050.00        0.06714
         482450.00    3716050.00        0.06957                        482550.00
3716050.00        0.07230
         482650.00    3716050.00        0.07501                        482750.00
3716050.00        0.07755
         482850.00    3716050.00        0.08104                        482950.00
3716050.00        0.08415
         483050.00    3716050.00        0.08748                        483150.00
3716050.00        0.09051
         483350.00    3716050.00        0.09728                        483450.00
3716050.00        0.10052
         483550.00    3716050.00        0.10301                        483650.00
3716050.00        0.10496
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         483750.00    3716050.00        0.10763                    483850.00
3716050.00        0.10950
         483950.00    3716050.00        0.11046                    484050.00
3716050.00        0.11106
         484150.00    3716050.00        0.11224                    484250.00
3716050.00        0.11168
         484450.00    3716050.00        0.11045                    484750.00
3716050.00        0.10785
         484850.00    3716050.00        0.10639                    485050.00
3716050.00        0.10358
         485150.00    3716050.00        0.10273                    485250.00
3716050.00        0.10425
         485350.00    3716050.00        0.10033                    485450.00
3716050.00        0.10054
         481950.00    3716150.00        0.06030                    482050.00
3716150.00        0.06238
         482150.00    3716150.00        0.06455                    482250.00
3716150.00        0.06694
         482350.00    3716150.00        0.06952                    482450.00
3716150.00        0.07206
         482550.00    3716150.00        0.07481                    482650.00
3716150.00        0.07790
         482750.00    3716150.00        0.08101                    482850.00
3716150.00        0.08425
         482950.00    3716150.00        0.08809                    483050.00
3716150.00        0.09189
         483150.00    3716150.00        0.09525                    483450.00
3716150.00        0.10673
         483550.00    3716150.00        0.10991                    483650.00
3716150.00        0.11232
         483750.00    3716150.00        0.11532                    483850.00
3716150.00        0.11739
         483950.00    3716150.00        0.11898                    484150.00
3716150.00        0.12066
         484250.00    3716150.00        0.12036                    484350.00
3716150.00        0.12017
         484450.00    3716150.00        0.11904                    484850.00
3716150.00        0.11330
         484950.00    3716150.00        0.11144                    485150.00
3716150.00        0.10789
         485250.00    3716150.00        0.10592                    485350.00
3716150.00        0.10438
         485450.00    3716150.00        0.10326                    481950.00
3716250.00        0.06189
         482050.00    3716250.00        0.06436                    482150.00
3716250.00        0.06681
         482250.00    3716250.00        0.06924                    482350.00
3716250.00        0.07179
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         482450.00    3716250.00        0.07464                        482550.00
3716250.00        0.07768
         482650.00    3716250.00        0.08093                        482750.00
3716250.00        0.08443
         482850.00    3716250.00        0.08830                        482950.00
3716250.00        0.09230
         483050.00    3716250.00        0.09635                        483150.00
3716250.00        0.10061
         483450.00    3716250.00        0.11341                        483550.00
3716250.00        0.11745
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 463
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN3     ***
                                  INCLUDING SOURCE(S):     GEN3        ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         483650.00    3716250.00        0.12082                        483750.00
3716250.00        0.12398
         483850.00    3716250.00        0.12649                        483950.00
3716250.00        0.12813
         484150.00    3716250.00        0.13186                        484850.00
3716250.00        0.12191
         484950.00    3716250.00        0.12000                        485050.00
3716250.00        0.11619
         485150.00    3716250.00        0.11387                        485250.00
3716250.00        0.11183
         485350.00    3716250.00        0.11006                        481950.00
3716350.00        0.06377
         482050.00    3716350.00        0.06649                        482150.00
3716350.00        0.06910
         482250.00    3716350.00        0.07227                        482350.00
3716350.00        0.07463
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         482450.00    3716350.00        0.07746                    482550.00
3716350.00        0.08073
         482650.00    3716350.00        0.08432                    482750.00
3716350.00        0.08824
         482850.00    3716350.00        0.09223                    482950.00
3716350.00        0.09685
         483050.00    3716350.00        0.10152                    483150.00
3716350.00        0.10640
         483450.00    3716350.00        0.12131                    483550.00
3716350.00        0.12604
         483650.00    3716350.00        0.13018                    483750.00
3716350.00        0.13410
         483850.00    3716350.00        0.13720                    483950.00
3716350.00        0.13927
         484850.00    3716350.00        0.13052                    484950.00
3716350.00        0.12967
         481950.00    3716450.00        0.06594                    482550.00
3716450.00        0.08426
         482650.00    3716450.00        0.08810                    482750.00
3716450.00        0.09226
         482850.00    3716450.00        0.09634                    482950.00
3716450.00        0.10193
         483050.00    3716450.00        0.10758                    483150.00
3716450.00        0.11298
         483450.00    3716450.00        0.13048                    483550.00
3716450.00        0.13604
         483650.00    3716450.00        0.14104                    483750.00
3716450.00        0.14552
         483850.00    3716450.00        0.14960                    483950.00
3716450.00        0.15230
         484050.00    3716450.00        0.15409                    485150.00
3716450.00        0.13126
         482650.00    3716550.00        0.09295                    482750.00
3716550.00        0.09693
         482850.00    3716550.00        0.10127                    482950.00
3716550.00        0.10823
         483450.00    3716550.00        0.14070                    483550.00
3716550.00        0.14790
         483650.00    3716550.00        0.15375                    483750.00
3716550.00        0.15992
         483850.00    3716550.00        0.16466                    483950.00
3716550.00        0.16829
         484050.00    3716550.00        0.17039                    484950.00
3716550.00        0.14672
         485050.00    3716550.00        0.14568                    485150.00
3716550.00        0.14457
         482850.00    3716650.00        0.10658                    482950.00
3716650.00        0.11373
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         483450.00    3716650.00        0.15138                        483550.00
3716650.00        0.16073
         483650.00    3716650.00        0.16939                        483750.00
3716650.00        0.17751
         483850.00    3716650.00        0.18265                        483950.00
3716650.00        0.18770
         484050.00    3716650.00        0.19049                        485250.00
3716650.00        0.14131
         481950.00    3716750.00        0.06981                        482650.00
3716750.00        0.10311
         482750.00    3716750.00        0.10869                        482850.00
3716750.00        0.11248
         482950.00    3716750.00        0.12080                        483050.00
3716750.00        0.12846
         483150.00    3716750.00        0.13862                        483450.00
3716750.00        0.16490
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 464
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN3     ***
                                  INCLUDING SOURCE(S):     GEN3        ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
         483550.00    3716750.00        0.17673                        483650.00
3716750.00        0.19123
         483750.00    3716750.00        0.20092                        483850.00
3716750.00        0.20510
         483950.00    3716750.00        0.21117                        484050.00
3716750.00        0.21490
         485150.00    3716750.00        0.15647                        485250.00
3716750.00        0.14815
         485350.00    3716750.00        0.14046                        485450.00
3716750.00        0.13231
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         485550.00    3716750.00        0.12673                    485650.00
3716750.00        0.11625
         481950.00    3716850.00        0.07138                    482050.00
3716850.00        0.07479
         482150.00    3716850.00        0.07839                    482650.00
3716850.00        0.10854
         482750.00    3716850.00        0.11406                    482850.00
3716850.00        0.11996
         482950.00    3716850.00        0.12951                    483050.00
3716850.00        0.14129
         483150.00    3716850.00        0.14881                    483250.00
3716850.00        0.15673
         484050.00    3716850.00        0.25177                    485550.00
3716850.00        0.12858
         485650.00    3716850.00        0.11813                    481950.00
3716950.00        0.07276
         482050.00    3716950.00        0.07612                    482150.00
3716950.00        0.08026
         482250.00    3716950.00        0.08485                    482350.00
3716950.00        0.08985
         482450.00    3716950.00        0.09554                    483150.00
3716950.00        0.15925
         483250.00    3716950.00        0.16980                    485550.00
3716950.00        0.12877
         485650.00    3716950.00        0.11920                    481950.00
3717050.00        0.07405
         482050.00    3717050.00        0.07770                    482150.00
3717050.00        0.08211
         482250.00    3717050.00        0.08712                    482350.00
3717050.00        0.09222
         482450.00    3717050.00        0.09806                    482550.00
3717050.00        0.10444
         482650.00    3717050.00        0.11193                    482850.00
3717050.00        0.13086
         482950.00    3717050.00        0.14622                    483250.00
3717050.00        0.19144
         485350.00    3717050.00        0.15353                    485450.00
3717050.00        0.14236
         485550.00    3717050.00        0.12994                    485650.00
3717050.00        0.11971
         486250.00    3717050.00        0.07675                    481950.00
3717150.00        0.07474
         482050.00    3717150.00        0.07935                    482150.00
3717150.00        0.08445
         482250.00    3717150.00        0.08863                    482350.00
3717150.00        0.09420
         482450.00    3717150.00        0.10087                    482550.00
3717150.00        0.10705
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         482650.00    3717150.00        0.11585                        482750.00
3717150.00        0.12524
         482850.00    3717150.00        0.13519                        482950.00
3717150.00        0.14820
         483050.00    3717150.00        0.16716                        485350.00
3717150.00        0.15661
         485450.00    3717150.00        0.14261                        485550.00
3717150.00        0.12953
         485650.00    3717150.00        0.11931                        481950.00
3717250.00        0.07618
         482050.00    3717250.00        0.08023                        482150.00
3717250.00        0.08503
         482250.00    3717250.00        0.09156                        482350.00
3717250.00        0.09767
         482450.00    3717250.00        0.10291                        482550.00
3717250.00        0.11016
         482650.00    3717250.00        0.11911                        482750.00
3717250.00        0.13017
         482850.00    3717250.00        0.14120                        482950.00
3717250.00        0.15363
         483050.00    3717250.00        0.17101                        483150.00
3717250.00        0.19362
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***       04/16/20
 *** AERMET - VERSION  16216 ***   ***
                          ***       09:53:15

                                    PAGE 465
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN3      ***
                                    INCLUDING SOURCE(S):     GEN3        ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                              ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         483250.00    3717250.00        0.22000                        483350.00
3717250.00        0.25058
         483450.00    3717250.00        0.27820                        483850.00
3717250.00        0.45862
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         483950.00    3717250.00        0.50974                    486150.00
3717250.00        0.08732
         486250.00    3717250.00        0.08308                    481950.00
3717350.00        0.07750
         482050.00    3717350.00        0.08150                    482150.00
3717350.00        0.08605
         482250.00    3717350.00        0.09206                    482350.00
3717350.00        0.09858
         482450.00    3717350.00        0.10559                    482550.00
3717350.00        0.11283
         482650.00    3717350.00        0.12263                    482750.00
3717350.00        0.13445
         482850.00    3717350.00        0.14647                    482950.00
3717350.00        0.15984
         483050.00    3717350.00        0.17864                    483150.00
3717350.00        0.20201
         483250.00    3717350.00        0.23048                    483350.00
3717350.00        0.26573
         483450.00    3717350.00        0.30535                    483850.00
3717350.00        0.58639
         483950.00    3717350.00        0.65965                    484050.00
3717350.00        0.71515
         484650.00    3717350.00        0.43209                    484750.00
3717350.00        0.36582
         486050.00    3717350.00        0.09017                    486150.00
3717350.00        0.08548
         486250.00    3717350.00        0.08124                    481950.00
3717450.00        0.07897
         482050.00    3717450.00        0.08320                    482150.00
3717450.00        0.08740
         482250.00    3717450.00        0.09387                    482350.00
3717450.00        0.09975
         482450.00    3717450.00        0.10697                    482750.00
3717450.00        0.13919
         482850.00    3717450.00        0.15155                    482950.00
3717450.00        0.16603
         483050.00    3717450.00        0.18565                    483150.00
3717450.00        0.21113
         483250.00    3717450.00        0.24422                    483350.00
3717450.00        0.28650
         483450.00    3717450.00        0.34072                    483550.00
3717450.00        0.41058
         483850.00    3717450.00        0.74863                    483950.00
3717450.00        0.89333
         484050.00    3717450.00        0.97635                    484550.00
3717450.00        0.58987
         484650.00    3717450.00        0.48939                    484750.00
3717450.00        0.39228
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         481950.00    3717550.00        0.08077                          482050.00
3717550.00        0.08537
         482150.00    3717550.00        0.09042                          482250.00
3717550.00        0.09551
         482350.00    3717550.00        0.10210                          482450.00
3717550.00        0.10950
         482750.00    3717550.00        0.14182                          482850.00
3717550.00        0.15498
         482950.00    3717550.00        0.17022                          483050.00
3717550.00        0.19188
         483250.00    3717550.00        0.25779                          483350.00
3717550.00        0.30700
         483450.00    3717550.00        0.38257                          483550.00
3717550.00        0.47332
         483950.00    3717550.00        1.36591                          484050.00
3717550.00        1.54774
         485850.00    3717550.00        0.10157                          485950.00
3717550.00        0.09518
         481950.00    3717650.00        0.07893                          482050.00
3717650.00        0.08621
         482150.00    3717650.00        0.09185                          482250.00
3717650.00        0.09736
         482350.00    3717650.00        0.10417                          482450.00
3717650.00        0.11153
         482550.00    3717650.00        0.12108                          482650.00
3717650.00        0.13087
         482750.00    3717650.00        0.14394                          482850.00
3717650.00        0.15759
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 466
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN3     ***
                                  INCLUDING SOURCE(S):     GEN3        ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                            ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                          X-COORD (M)
Y-COORD (M)        CONC
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- - - -

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         485750.00    3717850.00        0.10922                        485850.00
3717850.00        0.10182
         485950.00    3717850.00        0.09559                        486050.00
3717850.00        0.08949
         481950.00    3717950.00        0.07004                        482250.00
3717950.00        0.09102
         482350.00    3717950.00        0.09375                        482750.00
3717950.00        0.13798
         483350.00    3717950.00        0.34698                        483450.00
3717950.00        0.44337
         483550.00    3717950.00        0.59723                        484550.00
3717950.00        0.79183
         484650.00    3717950.00        0.56671                        484750.00
3717950.00        0.43112
         484850.00    3717950.00        0.34291                        484950.00
3717950.00        0.28115
         485350.00    3717950.00        0.15882                        485450.00
3717950.00        0.14249
         485550.00    3717950.00        0.13070                        485650.00
3717950.00        0.11913
         485750.00    3717950.00        0.10979                        485850.00
3717950.00        0.10264
         485950.00    3717950.00        0.09643                        486050.00
3717950.00        0.09044
         481950.00    3718050.00        0.07112                        482050.00
3718050.00        0.07360
         482750.00    3718050.00        0.13628                        482850.00
3718050.00        0.15386
         482950.00    3718050.00        0.17039                        483050.00
3718050.00        0.19503
         483150.00    3718050.00        0.22451                        483250.00
3718050.00        0.26471
         483350.00    3718050.00        0.32645                        483450.00
3718050.00        0.41526
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 467
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                  *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN3     ***
                                  INCLUDING SOURCE(S):     GEN3        ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***
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** CONC OF PM_10 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
483550.00	3718050.00	0.57024	483650.00	3718050.00	0.82780
484550.00	3718050.00	0.87589	484650.00	3718050.00	0.61551
485450.00	3718050.00	0.14558	485550.00	3718050.00	0.13186
485650.00	3718050.00	0.12009	485750.00	3718050.00	0.11049
485850.00	3718050.00	0.10279	485950.00	3718050.00	0.09633
486050.00	3718050.00	0.09052	481950.00	3718150.00	0.07297
482050.00	3718150.00	0.07505	482150.00	3718150.00	0.07808
482250.00	3718150.00	0.08410	482350.00	3718150.00	0.09100
482650.00	3718150.00	0.11989	482750.00	3718150.00	0.13355
482850.00	3718150.00	0.14228	482950.00	3718150.00	0.15834
483050.00	3718150.00	0.18009	483150.00	3718150.00	0.21065
483350.00	3718150.00	0.30608	483450.00	3718150.00	0.38633
483550.00	3718150.00	0.51218	483650.00	3718150.00	0.72192
484550.00	3718150.00	0.90139	484650.00	3718150.00	0.65472
485250.00	3718150.00	0.18754	485550.00	3718150.00	0.13351
485650.00	3718150.00	0.12169	485750.00	3718150.00	0.11189
481950.00	3718250.00	0.07336	482050.00	3718250.00	0.07603
482150.00	3718250.00	0.07863	482250.00	3718250.00	0.08231
482350.00	3718250.00	0.08996	482450.00	3718250.00	0.09804
482550.00	3718250.00	0.10612	482650.00	3718250.00	0.11733

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         482750.00    3718250.00        0.12813                        482850.00
3718250.00        0.13181
         482950.00    3718250.00        0.14413                        483250.00
3718250.00        0.22973
         484550.00    3718250.00        0.83779                        484650.00
3718250.00        0.65218
         484750.00    3718250.00        0.50905                        484850.00
3718250.00        0.40403
         485150.00    3718250.00        0.22661                        485250.00
3718250.00        0.19503
         485650.00    3718250.00        0.12453                        481950.00
3718350.00        0.07088
         482050.00    3718350.00        0.07471                        482150.00
3718350.00        0.07750
         482250.00    3718350.00        0.08033                        482350.00
3718350.00        0.08763
         482450.00    3718350.00        0.09599                        482550.00
3718350.00        0.10363
         482650.00    3718350.00        0.11281                        482750.00
3718350.00        0.12320
         483150.00    3718350.00        0.17563                        483450.00
3718350.00        0.33898
         485250.00    3718350.00        0.20258                        485350.00
3718350.00        0.17697
         485550.00    3718350.00        0.13956                        485650.00
3718350.00        0.12843
         486150.00    3718350.00        0.08645                        486250.00
3718350.00        0.08155
         481950.00    3718450.00        0.06895                        482050.00
3718450.00        0.07305
         482150.00    3718450.00        0.07575                        482250.00
3718450.00        0.07873
         482350.00    3718450.00        0.08493                        482450.00
3718450.00        0.09275
         482550.00    3718450.00        0.10089                        482650.00
3718450.00        0.10942
         482750.00    3718450.00        0.11927                        482850.00
3718450.00        0.12744
         483350.00    3718450.00        0.25735                        484450.00
3718450.00        0.60796
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 468
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: GEN3 ***

INCLUDING SOURCE(S): GEN3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
485150.00	3718450.00	0.24264	485250.00	3718450.00	0.20850
485350.00	3718450.00	0.18313	485750.00	3718450.00	0.11872
485850.00	3718450.00	0.10823	485950.00	3718450.00	0.09979
486050.00	3718450.00	0.09363	481950.00	3718550.00	0.06677
482050.00	3718550.00	0.07058	482150.00	3718550.00	0.07480
482250.00	3718550.00	0.07866	482350.00	3718550.00	0.08359
482450.00	3718550.00	0.09088	482550.00	3718550.00	0.09807
482650.00	3718550.00	0.10572	482750.00	3718550.00	0.11681
482850.00	3718550.00	0.12664	482950.00	3718550.00	0.13699
483550.00	3718550.00	0.32654	484650.00	3718550.00	0.43371
484750.00	3718550.00	0.39947	484850.00	3718550.00	0.35954
485850.00	3718550.00	0.11094	485950.00	3718550.00	0.10267
482050.00	3718650.00	0.06844	482150.00	3718650.00	0.07295
482250.00	3718650.00	0.07799	482350.00	3718650.00	0.08365
482450.00	3718650.00	0.08901	482550.00	3718650.00	0.09572
482650.00	3718650.00	0.10427	482750.00	3718650.00	0.11402
482850.00	3718650.00	0.12591	482950.00	3718650.00	0.13977

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         485150.00    3718650.00        0.23490                    485450.00
3718650.00        0.16851
         485550.00    3718650.00        0.15082                    485650.00
3718650.00        0.13548
         485850.00    3718650.00        0.11505                    485950.00
3718650.00        0.10440
         486050.00    3718650.00        0.09792                    482050.00
3718750.00        0.06735
         482150.00    3718750.00        0.07181                    482250.00
3718750.00        0.07593
         482350.00    3718750.00        0.08151                    482450.00
3718750.00        0.08771
         482550.00    3718750.00        0.09464                    482650.00
3718750.00        0.10245
         482750.00    3718750.00        0.11271                    482850.00
3718750.00        0.12474
         482950.00    3718750.00        0.13774                    483050.00
3718750.00        0.15382
         484950.00    3718750.00        0.26407                    485050.00
3718750.00        0.24629
         485150.00    3718750.00        0.22703                    485850.00
3718750.00        0.11789
         485950.00    3718750.00        0.10761                    486050.00
3718750.00        0.09948
         482350.00    3718850.00        0.08028                    482450.00
3718850.00        0.08644
         482550.00    3718850.00        0.09315                    482650.00
3718850.00        0.10117
         482750.00    3718850.00        0.11147                    482850.00
3718850.00        0.12309
         482950.00    3718850.00        0.13496                    483050.00
3718850.00        0.14935
         483150.00    3718850.00        0.16008                    484150.00
3718850.00        0.23370
         484250.00    3718850.00        0.23951                    485350.00
3718850.00        0.17989
         485450.00    3718850.00        0.16478                    485750.00
3718850.00        0.12846
         485850.00    3718850.00        0.11834                    485950.00
3718850.00        0.11024
         486050.00    3718850.00        0.10099                    482450.00
3718950.00        0.08507
         482550.00    3718950.00        0.09222                    482650.00
3718950.00        0.09976
         482750.00    3718950.00        0.10990                    482850.00
3718950.00        0.12021
```

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: GEN3 ***
INCLUDING SOURCE(S): GEN3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
482950.00	3718950.00	0.13131	483050.00	3718950.00	0.14246
483150.00	3718950.00	0.15458	483250.00	3718950.00	0.16264
485750.00	3718950.00	0.13085	485850.00	3718950.00	0.12030
485950.00	3718950.00	0.11045	486050.00	3718950.00	0.10322
482250.00	3719050.00	0.07253	482350.00	3719050.00	0.07801
482450.00	3719050.00	0.08389	482550.00	3719050.00	0.09066
482650.00	3719050.00	0.09895	482850.00	3719050.00	0.11659
482950.00	3719050.00	0.12545	483050.00	3719050.00	0.13527
483150.00	3719050.00	0.14452	483250.00	3719050.00	0.15232
483350.00	3719050.00	0.15691	483450.00	3719050.00	0.16001
483550.00	3719050.00	0.16142	485250.00	3719050.00	0.16855
485450.00	3719050.00	0.15237	485550.00	3719050.00	0.14337
485650.00	3719050.00	0.13551	485750.00	3719050.00	0.12812
482350.00	3719150.00	0.07729	482650.00	3719150.00	0.09690

```
         482850.00    3719150.00        0.11278                    483050.00
3719150.00        0.12812
         483150.00    3719150.00        0.13510                    483250.00
3719150.00        0.14118
         483350.00    3719150.00        0.14474                    483450.00
3719150.00        0.14657
         483550.00    3719150.00        0.14704                    485250.00
3719150.00        0.15717
         485550.00    3719150.00        0.13787                    485650.00
3719150.00        0.13153
         485950.00    3719150.00        0.11053                    484550.00
3719250.00        0.14994
         484750.00    3719250.00        0.14992                    484850.00
3719250.00        0.14989
         484750.00    3719350.00        0.13625                    484850.00
3719350.00        0.13582
         484950.00    3719350.00        0.13518                    485050.00
3719350.00        0.13471
         485150.00    3719350.00        0.13377                    484250.00
3719450.00        0.12315
         484350.00    3719450.00        0.12445                    484450.00
3719450.00        0.12585
         484550.00    3719450.00        0.12580                    484650.00
3719450.00        0.12515
         484750.00    3719450.00        0.12477                    484850.00
3719450.00        0.12448
         484950.00    3719450.00        0.12449                    485050.00
3719450.00        0.12428
         485150.00    3719450.00        0.12317                    485250.00
3719450.00        0.12252
         485350.00    3719450.00        0.12149                    485450.00
3719450.00        0.11917
         485550.00    3719450.00        0.11713                    484250.00
3719550.00        0.11315
         484350.00    3719550.00        0.11434                    484450.00
3719550.00        0.11563
         484550.00    3719550.00        0.11659                    484650.00
3719550.00        0.11626
         484750.00    3719550.00        0.11535                    484850.00
3719550.00        0.11512
         484950.00    3719550.00        0.11508                    485050.00
3719550.00        0.11426
         485150.00    3719550.00        0.11399                    485250.00
3719550.00        0.11314
         485350.00    3719550.00        0.11345                    485450.00
3719550.00        0.11194
         485550.00    3719550.00        0.11024                    484450.00
3719850.00        0.09419
```

484550.00 3719850.00 0.09511 484650.00 3719850.00 0.09481
484350.00 3719950.00 0.08815 484450.00 3719950.00 0.08821

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: GEN3 ***
INCLUDING SOURCE(S): GEN3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
484550.00	3719950.00	0.08830	484650.00	3719950.00	0.08938
483837.50	3717212.50	0.42901	483862.50	3717212.50	0.43424
483887.50	3717212.50	0.44888	483412.50	3717237.50	0.26476
483812.50	3717237.50	0.43413	483837.50	3717237.50	0.44431
483862.50	3717237.50	0.45472	483887.50	3717237.50	0.46953
483912.50	3717237.50	0.48175	483937.50	3717237.50	0.49182
483412.50	3717262.50	0.26926	483437.50	3717262.50	0.27722
483462.50	3717262.50	0.28510	483812.50	3717262.50	0.44936
483837.50	3717262.50	0.46269	483862.50	3717262.50	0.47597
483887.50	3717262.50	0.49275	483912.50	3717262.50	0.50493
483937.50	3717262.50	0.51622	483962.50	3717262.50	0.53180

```
         483987.50    3717262.50        0.54457                    483412.50
3717287.50        0.27427
         483437.50    3717287.50        0.28286                    483462.50
3717287.50        0.29181
         483487.50    3717287.50        0.30105                    483812.50
3717287.50        0.47309
         483837.50    3717287.50        0.48760                    483862.50
3717287.50        0.50247
         483887.50    3717287.50        0.51968                    483912.50
3717287.50        0.53509
         483937.50    3717287.50        0.54897                    483962.50
3717287.50        0.56409
         483987.50    3717287.50        0.57819                    484012.50
3717287.50        0.59118
         483412.50    3717312.50        0.28036                    483437.50
3717312.50        0.28945
         483462.50    3717312.50        0.29898                    483487.50
3717312.50        0.30908
         483512.50    3717312.50        0.31976                    483787.50
3717312.50        0.48581
         483812.50    3717312.50        0.50271                    483837.50
3717312.50        0.51989
         483862.50    3717312.50        0.53720                    483887.50
3717312.50        0.55472
         483912.50    3717312.50        0.57162                    483937.50
3717312.50        0.58671
         483962.50    3717312.50        0.60251                    483987.50
3717312.50        0.61752
         484012.50    3717312.50        0.63136                    484037.50
3717312.50        0.64336
         484562.50    3717312.50        0.46821                    484587.50
3717312.50        0.45298
         484612.50    3717312.50        0.43615                    484637.50
3717312.50        0.41942
         484662.50    3717312.50        0.40229                    484687.50
3717312.50        0.38615
         484712.50    3717312.50        0.37144                    484737.50
3717312.50        0.35826
         484762.50    3717312.50        0.34515                    483412.50
3717337.50        0.28693
         483437.50    3717337.50        0.29676                    483462.50
3717337.50        0.30689
         483487.50    3717337.50        0.31803                    483512.50
3717337.50        0.32979
         483537.50    3717337.50        0.34310                    483787.50
3717337.50        0.51429
         483812.50    3717337.50        0.53575                    483837.50
3717337.50        0.55610
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         483862.50    3717337.50        0.57634                        483887.50
3717337.50        0.59652
         483912.50    3717337.50        0.61540                        483937.50
3717337.50        0.62871
         483962.50    3717337.50        0.64529                        483987.50
3717337.50        0.66207
         484012.50    3717337.50        0.67606                        484037.50
3717337.50        0.68715
         484562.50    3717337.50        0.49052                        484587.50
3717337.50        0.47298
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 471
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN3     ***
                                  INCLUDING SOURCE(S):     GEN3        ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         484612.50    3717337.50        0.45394                        484637.50
3717337.50        0.43426
         484662.50    3717337.50        0.41561                        484687.50
3717337.50        0.39852
         484712.50    3717337.50        0.38246                        484737.50
3717337.50        0.36848
         484762.50    3717337.50        0.35409                        483412.50
3717362.50        0.29339
         483437.50    3717362.50        0.30375                        483462.50
3717362.50        0.31520
         483487.50    3717362.50        0.32748                        483512.50
3717362.50        0.34051
         483537.50    3717362.50        0.35541                        483787.50
3717362.50        0.54319
         483812.50    3717362.50        0.56937                        483837.50
3717362.50        0.59419
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         483862.50    3717362.50        0.61988                    483887.50
3717362.50        0.64532
         483912.50    3717362.50        0.66575                    483937.50
3717362.50        0.67946
         483962.50    3717362.50        0.69179                    483987.50
3717362.50        0.70974
         484012.50    3717362.50        0.72473                    484037.50
3717362.50        0.73611
         484562.50    3717362.50        0.51093                    484587.50
3717362.50        0.49126
         484612.50    3717362.50        0.47051                    484637.50
3717362.50        0.44936
         484662.50    3717362.50        0.42893                    484687.50
3717362.50        0.40884
         484712.50    3717362.50        0.39253                    484737.50
3717362.50        0.37754
         484762.50    3717362.50        0.36215                    484787.50
3717362.50        0.34612
         483412.50    3717387.50        0.29943                    483437.50
3717387.50        0.31136
         483462.50    3717387.50        0.32406                    483487.50
3717387.50        0.33733
         483512.50    3717387.50        0.35165                    483537.50
3717387.50        0.36756
         483562.50    3717387.50        0.38404                    483787.50
3717387.50        0.57351
         483812.50    3717387.50        0.60212                    483837.50
3717387.50        0.63101
         483862.50    3717387.50        0.66343                    483887.50
3717387.50        0.69535
         483912.50    3717387.50        0.71608                    483937.50
3717387.50        0.73014
         483962.50    3717387.50        0.74459                    483987.50
3717387.50        0.76280
         484012.50    3717387.50        0.77844                    484037.50
3717387.50        0.79113
         484062.50    3717387.50        0.80027                    484562.50
3717387.50        0.53147
         484587.50    3717387.50        0.50918                    484612.50
3717387.50        0.48688
         484637.50    3717387.50        0.46402                    484662.50
3717387.50        0.44229
         484687.50    3717387.50        0.42170                    484712.50
3717387.50        0.40338
         484737.50    3717387.50        0.38574                    484762.50
3717387.50        0.36840
         484787.50    3717387.50        0.35126                    483412.50
3717412.50        0.30657
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         483437.50    3717412.50        0.31960                       483462.50
3717412.50        0.33362
         483487.50    3717412.50        0.34821                       483512.50
3717412.50        0.36369
         483537.50    3717412.50        0.38041                       483562.50
3717412.50        0.39833
         483787.50    3717412.50        0.60622                       483812.50
3717412.50        0.63592
         483837.50    3717412.50        0.66719                       483862.50
3717412.50        0.70156
         483887.50    3717412.50        0.73419                       483912.50
3717412.50        0.76108
         483937.50    3717412.50        0.78306                       483962.50
3717412.50        0.80312
         483987.50    3717412.50        0.82289                       484012.50
3717412.50        0.83980
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 472
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN3     ***
                                  INCLUDING SOURCE(S):     GEN3        ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                          X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
         484037.50    3717412.50        0.85394                       484062.50
3717412.50        0.86322
         484487.50    3717412.50        0.62011                       484512.50
3717412.50        0.59686
         484537.50    3717412.50        0.57360                       484562.50
3717412.50        0.55040
         484587.50    3717412.50        0.52717                       484612.50
3717412.50        0.50379
         484637.50    3717412.50        0.47909                       484662.50
3717412.50        0.45498
```

```
         484687.50    3717412.50        0.43404                    484712.50
3717412.50        0.41341
         484737.50    3717412.50        0.39307                    484762.50
3717412.50        0.37415
         484787.50    3717412.50        0.35624                    483412.50
3717437.50        0.31468
         483437.50    3717437.50        0.32868                    483462.50
3717437.50        0.34378
         483487.50    3717437.50        0.35949                    483512.50
3717437.50        0.37611
         483537.50    3717437.50        0.39392                    483562.50
3717437.50        0.41303
         483587.50    3717437.50        0.43296                    483837.50
3717437.50        0.70628
         483862.50    3717437.50        0.73938                    483887.50
3717437.50        0.77380
         483912.50    3717437.50        0.81173                    483937.50
3717437.50        0.84266
         483962.50    3717437.50        0.86943                    483987.50
3717437.50        0.89199
         484012.50    3717437.50        0.91095                    484037.50
3717437.50        0.92708
         484062.50    3717437.50        0.93946                    484487.50
3717437.50        0.64991
         484512.50    3717437.50        0.62178                    484537.50
3717437.50        0.59456
         484562.50    3717437.50        0.56847                    484587.50
3717437.50        0.54386
         484612.50    3717437.50        0.52036                    484637.50
3717437.50        0.49547
         484662.50    3717437.50        0.46954                    484687.50
3717437.50        0.44531
         484712.50    3717437.50        0.42156                    484737.50
3717437.50        0.39968
         484762.50    3717437.50        0.37961                    483412.50
3717462.50        0.32287
         483437.50    3717462.50        0.33771                    483462.50
3717462.50        0.35356
         483487.50    3717462.50        0.37056                    483512.50
3717462.50        0.38851
         483537.50    3717462.50        0.40795                    483562.50
3717462.50        0.42839
         483587.50    3717462.50        0.45000                    483887.50
3717462.50        0.84095
         483912.50    3717462.50        0.88323                    483937.50
3717462.50        0.91864
         483962.50    3717462.50        0.95011                    483987.50
3717462.50        0.97701
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         484012.50    3717462.50        1.00005                        484037.50
3717462.50        1.01851
         484062.50    3717462.50        1.03163                        484487.50
3717462.50        0.67920
         484512.50    3717462.50        0.64696                        484537.50
3717462.50        0.61499
         484562.50    3717462.50        0.58498                        484587.50
3717462.50        0.55758
         484612.50    3717462.50        0.53367                        484637.50
3717462.50        0.50653
         484662.50    3717462.50        0.48009                        484687.50
3717462.50        0.45547
         484712.50    3717462.50        0.42813                        484737.50
3717462.50        0.40536
         484762.50    3717462.50        0.38456                        483412.50
3717487.50        0.33088
         483437.50    3717487.50        0.34653                        483462.50
3717487.50        0.36342
         483487.50    3717487.50        0.38156                        483512.50
3717487.50        0.40107
         483537.50    3717487.50        0.42204                        483562.50
3717487.50        0.44425
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                          ***       09:53:15

                                    PAGE 473
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN3      ***
                                    INCLUDING SOURCE(S):     GEN3        ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                              ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         483587.50    3717487.50        0.46779                        483612.50
3717487.50        0.49272
         483912.50    3717487.50        0.97073                        483937.50
3717487.50        1.01151
```

```
         483962.50    3717487.50        1.04904                    483987.50
3717487.50        1.08300
         484012.50    3717487.50        1.11120                    484037.50
3717487.50        1.13187
         484062.50    3717487.50        1.14518                    484537.50
3717487.50        0.63517
         484562.50    3717487.50        0.60099                    484587.50
3717487.50        0.56956
         484612.50    3717487.50        0.54269                    484637.50
3717487.50        0.51727
         484662.50    3717487.50        0.48682                    484687.50
3717487.50        0.46320
         484712.50    3717487.50        0.43505                    484737.50
3717487.50        0.41067
         484762.50    3717487.50        0.38904                    483412.50
3717512.50        0.33902
         483437.50    3717512.50        0.35689                    483462.50
3717512.50        0.37517
         483487.50    3717512.50        0.39378                    483512.50
3717512.50        0.41396
         483537.50    3717512.50        0.43638                    483562.50
3717512.50        0.46080
         483587.50    3717512.50        0.48686                    483612.50
3717512.50        0.51428
         483912.50    3717512.50        1.07196                    483937.50
3717512.50        1.12324
         483962.50    3717512.50        1.16987                    483987.50
3717512.50        1.20966
         484012.50    3717512.50        1.24422                    484037.50
3717512.50        1.27088
         484062.50    3717512.50        1.28720                    484537.50
3717512.50        0.65417
         484562.50    3717512.50        0.61638                    484587.50
3717512.50        0.58173
         484612.50    3717512.50        0.55097                    484637.50
3717512.50        0.52299
         484662.50    3717512.50        0.49634                    484687.50
3717512.50        0.47010
         484712.50    3717512.50        0.44228                    484737.50
3717512.50        0.41594
         484762.50    3717512.50        0.39345                    483412.50
3717537.50        0.34652
         483437.50    3717537.50        0.36766                    483462.50
3717537.50        0.38829
         483487.50    3717537.50        0.40782                    483512.50
3717537.50        0.42864
         483537.50    3717537.50        0.45210                    483562.50
3717537.50        0.47791
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         483587.50    3717537.50        0.50630                          483612.50
3717537.50        0.53695
         483637.50    3717537.50        0.57020                          483937.50
3717537.50        1.25795
         483962.50    3717537.50        1.31347                          483987.50
3717537.50        1.36165
         484012.50    3717537.50        1.40364                          484037.50
3717537.50        1.43747
         484062.50    3717537.50        1.45847                          483412.50
3717562.50        0.35289
         483437.50    3717562.50        0.37504                          483462.50
3717562.50        0.39752
         483487.50    3717562.50        0.41989                          483512.50
3717562.50        0.44323
         483537.50    3717562.50        0.46824                          483562.50
3717562.50        0.49609
         483587.50    3717562.50        0.52644                          483612.50
3717562.50        0.55977
         483637.50    3717562.50        0.59655                          483937.50
3717562.50        1.41679
         483962.50    3717562.50        1.48736                          483987.50
3717562.50        1.54618
         484012.50    3717562.50        1.59988                          484037.50
3717562.50        1.64172
         484062.50    3717562.50        1.67156                          483412.50
3717587.50        0.35855
         483437.50    3717587.50        0.38097                          483462.50
3717587.50        0.40492
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 474
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN3     ***
                                  INCLUDING SOURCE(S):     GEN3        ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                          X-COORD (M)
Y-COORD (M)        CONC
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- - - -

```
         484737.50    3717662.50        0.42083                        484762.50
3717662.50        0.39670
         484787.50    3717662.50        0.37821                        484812.50
3717662.50        0.35874
         484837.50    3717662.50        0.33810                        484862.50
3717662.50        0.32009
         484512.50    3717687.50        0.79842                        484537.50
3717687.50        0.73173
         484562.50    3717687.50        0.67469                        484587.50
3717687.50        0.62412
         484612.50    3717687.50        0.57952                        484637.50
3717687.50        0.53993
         484662.50    3717687.50        0.50473                        484687.50
3717687.50        0.47404
         484712.50    3717687.50        0.44595                        484737.50
3717687.50        0.42080
         484762.50    3717687.50        0.39903                        484787.50
3717687.50        0.38016
         484812.50    3717687.50        0.36224                        484837.50
3717687.50        0.34214
         484862.50    3717687.50        0.32101                        484512.50
3717712.50        0.80779
         484537.50    3717712.50        0.73738                        484562.50
3717712.50        0.67726
         484587.50    3717712.50        0.62571                        484612.50
3717712.50        0.58055
         484637.50    3717712.50        0.54067                        484662.50
3717712.50        0.50502
         484687.50    3717712.50        0.47349                        484712.50
3717712.50        0.44506
         484737.50    3717712.50        0.41971                        484762.50
3717712.50        0.39700
         484787.50    3717712.50        0.37632                        484812.50
3717712.50        0.35802
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                        ***        09:53:15

                                   PAGE 475
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                   *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN3      ***
                                   INCLUDING SOURCE(S):     GEN3        ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***
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** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
484837.50	3717712.50	0.34005	484862.50	3717712.50	0.32140
484512.50	3717737.50	0.81137	484537.50	3717737.50	0.74112
484562.50	3717737.50	0.68069	484587.50	3717737.50	0.62823
484612.50	3717737.50	0.58235	484637.50	3717737.50	0.54167
484662.50	3717737.50	0.50539	484687.50	3717737.50	0.47302
484712.50	3717737.50	0.44420	484737.50	3717737.50	0.41864
484762.50	3717737.50	0.39562	484787.50	3717737.50	0.37420
484812.50	3717737.50	0.35451	484837.50	3717737.50	0.33650
484862.50	3717737.50	0.31994	484512.50	3717762.50	0.81703
484537.50	3717762.50	0.74636	484562.50	3717762.50	0.68496
484587.50	3717762.50	0.63234	484612.50	3717762.50	0.58523
484637.50	3717762.50	0.54319	484662.50	3717762.50	0.50641
484687.50	3717762.50	0.47350	484712.50	3717762.50	0.44442
484737.50	3717762.50	0.41861	484762.50	3717762.50	0.39559
484787.50	3717762.50	0.37380	484812.50	3717762.50	0.35326
484837.50	3717762.50	0.33481	484862.50	3717762.50	0.31821
484512.50	3717787.50	0.82305	484537.50	3717787.50	0.75193
484562.50	3717787.50	0.69243	484587.50	3717787.50	0.63768
484612.50	3717787.50	0.58831	484637.50	3717787.50	0.54547
484662.50	3717787.50	0.50808	484687.50	3717787.50	0.47512

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         484712.50    3717787.50        0.44593                        484737.50
3717787.50        0.42029
         484762.50    3717787.50        0.39652                        484787.50
3717787.50        0.37448
         484812.50    3717787.50        0.35379                        484837.50
3717787.50        0.33460
         484862.50    3717787.50        0.31815                        483412.50
3717812.50        0.39945
         483437.50    3717812.50        0.42539                        483462.50
3717812.50        0.45459
         483487.50    3717812.50        0.48812                        484512.50
3717812.50        0.83067
         484537.50    3717812.50        0.76214                        484562.50
3717812.50        0.70024
         484587.50    3717812.50        0.64392                        484612.50
3717812.50        0.59242
         484637.50    3717812.50        0.54809                        484662.50
3717812.50        0.51038
         484687.50    3717812.50        0.47733                        484712.50
3717812.50        0.44813
         484737.50    3717812.50        0.42196                        484762.50
3717812.50        0.39816
         484787.50    3717812.50        0.37582                        484812.50
3717812.50        0.35522
         484837.50    3717812.50        0.33625                        484862.50
3717812.50        0.31961
         483412.50    3717837.50        0.40161                        483437.50
3717837.50        0.42786
         483462.50    3717837.50        0.45752                        483487.50
3717837.50        0.49176
         483512.50    3717837.50        0.53106                        484512.50
3717837.50        0.83992
         484537.50    3717837.50        0.76866                        484562.50
3717837.50        0.70535
         484587.50    3717837.50        0.64921                        484612.50
3717837.50        0.59752
         484637.50    3717837.50        0.55239                        484662.50
3717837.50        0.51391
         484687.50    3717837.50        0.48060                        484712.50
3717837.50        0.45124
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 476
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: GEN3 ***

INCLUDING SOURCE(S): GEN3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
484737.50	3717837.50	0.42449	484762.50	3717837.50	0.40008
484787.50	3717837.50	0.37780	484812.50	3717837.50	0.35719
484837.50	3717837.50	0.33854	484862.50	3717837.50	0.32141
483412.50	3717862.50	0.40303	483437.50	3717862.50	0.42980
483462.50	3717862.50	0.46047	483487.50	3717862.50	0.49540
483512.50	3717862.50	0.53471	484512.50	3717862.50	0.84963
484537.50	3717862.50	0.77661	484562.50	3717862.50	0.71194
484587.50	3717862.50	0.65491	484612.50	3717862.50	0.60350
484637.50	3717862.50	0.55798	484662.50	3717862.50	0.51875
484687.50	3717862.50	0.48476	484712.50	3717862.50	0.45469
484737.50	3717862.50	0.42723	484762.50	3717862.50	0.40252
484787.50	3717862.50	0.38019	484812.50	3717862.50	0.35965
484837.50	3717862.50	0.34071	484862.50	3717862.50	0.32368
483412.50	3717887.50	0.40382	483437.50	3717887.50	0.43114
483462.50	3717887.50	0.46307	483487.50	3717887.50	0.49905
483512.50	3717887.50	0.53890	483537.50	3717887.50	0.58392
484512.50	3717887.50	0.86418	484537.50	3717887.50	0.78585

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         484562.50    3717887.50        0.71984                    484587.50
3717887.50        0.66194
         484612.50    3717887.50        0.61037                    484637.50
3717887.50        0.56512
         484662.50    3717887.50        0.52493                    484687.50
3717887.50        0.49028
         484712.50    3717887.50        0.45915                    484737.50
3717887.50        0.43102
         484762.50    3717887.50        0.40582                    484787.50
3717887.50        0.38310
         484812.50    3717887.50        0.36251                    484837.50
3717887.50        0.34340
         484862.50    3717887.50        0.32607                    483412.50
3717912.50        0.40367
         483437.50    3717912.50        0.43075                    483462.50
3717912.50        0.46215
         483487.50    3717912.50        0.49545                    483512.50
3717912.50        0.53338
         483537.50    3717912.50        0.57887                    483562.50
3717912.50        0.63562
         484512.50    3717912.50        0.88257                    484537.50
3717912.50        0.80116
         484562.50    3717912.50        0.73199                    484587.50
3717912.50        0.67181
         484612.50    3717912.50        0.61970                    484637.50
3717912.50        0.57297
         484662.50    3717912.50        0.53260                    484687.50
3717912.50        0.49645
         484712.50    3717912.50        0.46449                    484737.50
3717912.50        0.43588
         484762.50    3717912.50        0.41011                    484787.50
3717912.50        0.38681
         484812.50    3717912.50        0.36577                    484837.50
3717912.50        0.34664
         484862.50    3717912.50        0.32876                    483412.50
3717937.50        0.40276
         483437.50    3717937.50        0.42957                    483462.50
3717937.50        0.45986
         483487.50    3717937.50        0.49411                    483512.50
3717937.50        0.53051
         483537.50    3717937.50        0.57479                    483562.50
3717937.50        0.62581
         483587.50    3717937.50        0.69171                    484512.50
3717937.50        0.90422
         484537.50    3717937.50        0.81998                    484562.50
3717937.50        0.74734
```

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                               *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN3   ***
                               INCLUDING SOURCE(S):   GEN3   ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                     ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         484587.50   3717937.50   0.68535   484612.50
3717937.50   0.63073
         484637.50   3717937.50   0.58300   484662.50
3717937.50   0.54097
         484687.50   3717937.50   0.50417   484712.50
3717937.50   0.47111
         484737.50   3717937.50   0.44159   484762.50
3717937.50   0.41529
         484787.50   3717937.50   0.39139   484812.50
3717937.50   0.36974
         484837.50   3717937.50   0.35017   484862.50
3717937.50   0.33221
         483412.50   3717962.50   0.40140   483437.50
3717962.50   0.42801
         483462.50   3717962.50   0.45776   483487.50
3717962.50   0.49152
         483512.50   3717962.50   0.53058   483537.50
3717962.50   0.57390
         483562.50   3717962.50   0.62567   483587.50
3717962.50   0.68216
         483612.50   3717962.50   0.74818   484512.50
3717962.50   0.92868
         484537.50   3717962.50   0.84105   484562.50
3717962.50   0.76549
         484587.50   3717962.50   0.70076   484612.50
3717962.50   0.64403
         484637.50   3717962.50   0.59471   484662.50
3717962.50   0.55109

```
         484687.50    3717962.50        0.51305                    484712.50
3717962.50        0.47901
         484737.50    3717962.50        0.44825                    484762.50
3717962.50        0.42098
         484787.50    3717962.50        0.39650                    484812.50
3717962.50        0.37434
         484837.50    3717962.50        0.35418                    484862.50
3717962.50        0.33580
         483412.50    3717987.50        0.39689                    483437.50
3717987.50        0.42294
         483462.50    3717987.50        0.45217                    483487.50
3717987.50        0.48682
         483512.50    3717987.50        0.52529                    483537.50
3717987.50        0.56819
         483562.50    3717987.50        0.61669                    483587.50
3717987.50        0.67243
         483612.50    3717987.50        0.73810                    484512.50
3717987.50        0.95445
         484537.50    3717987.50        0.86363                    484562.50
3717987.50        0.78574
         484587.50    3717987.50        0.71793                    484612.50
3717987.50        0.65944
         484637.50    3717987.50        0.60748                    484662.50
3717987.50        0.56261
         484687.50    3717987.50        0.52221                    484712.50
3717987.50        0.48735
         484737.50    3717987.50        0.45603                    484762.50
3717987.50        0.42771
         484787.50    3717987.50        0.40238                    484812.50
3717987.50        0.37951
         484837.50    3717987.50        0.35885                    484862.50
3717987.50        0.34008
         483412.50    3718012.50        0.38856                    483437.50
3718012.50        0.41458
         483462.50    3718012.50        0.44265                    483487.50
3718012.50        0.47642
         483512.50    3718012.50        0.51640                    483537.50
3718012.50        0.56154
         483562.50    3718012.50        0.60977                    483587.50
3718012.50        0.66519
         483612.50    3718012.50        0.73095                    483637.50
3718012.50        0.80240
         484512.50    3718012.50        0.97981                    484537.50
3718012.50        0.88780
         484562.50    3718012.50        0.80723                    484587.50
3718012.50        0.73672
         484612.50    3718012.50        0.67495                    484637.50
3718012.50        0.62069
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484662.50 3718012.50 0.57384 484687.50 3718012.50 0.53283
484712.50 3718012.50 0.49665 484737.50 3718012.50 0.46424

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: GEN3 ***
INCLUDING SOURCE(S): GEN3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
484762.50	3718012.50	0.43515	484787.50	3718012.50	0.40896
484812.50	3718012.50	0.38549	484837.50	3718012.50	0.36415
484862.50	3718012.50	0.34488	483412.50	3718037.50	0.38067
483437.50	3718037.50	0.40582	483462.50	3718037.50	0.43368
483487.50	3718037.50	0.46677	483512.50	3718037.50	0.50456
483537.50	3718037.50	0.55081	483562.50	3718037.50	0.60124
483587.50	3718037.50	0.65595	483612.50	3718037.50	0.71461
483637.50	3718037.50	0.79386	483662.50	3718037.50	0.88061
484512.50	3718037.50	1.00321	484537.50	3718037.50	0.90907
484562.50	3718037.50	0.82663	484587.50	3718037.50	0.75420
484612.50	3718037.50	0.69028	484637.50	3718037.50	0.63481

```
         484662.50    3718037.50        0.58584                    484687.50
3718037.50        0.54384
         484712.50    3718037.50        0.50592                    484737.50
3718037.50        0.47291
         484762.50    3718037.50        0.44280                    484787.50
3718037.50        0.41609
         484812.50    3718037.50        0.39180                    484837.50
3718037.50        0.36983
         484862.50    3718037.50        0.34987                    483412.50
3718062.50        0.37328
         483437.50    3718062.50        0.39778                    483462.50
3718062.50        0.42540
         483487.50    3718062.50        0.45708                    483512.50
3718062.50        0.49479
         483537.50    3718062.50        0.53881                    483562.50
3718062.50        0.59082
         483587.50    3718062.50        0.63843                    483612.50
3718062.50        0.69834
         483637.50    3718062.50        0.77699                    483662.50
3718062.50        0.86199
         484512.50    3718062.50        1.02057                    484537.50
3718062.50        0.92645
         484562.50    3718062.50        0.84327                    484587.50
3718062.50        0.76906
         484612.50    3718062.50        0.70459                    484637.50
3718062.50        0.64711
         484662.50    3718062.50        0.59732                    484687.50
3718062.50        0.55373
         483412.50    3718087.50        0.36472                    483437.50
3718087.50        0.38796
         483462.50    3718087.50        0.41587                    483487.50
3718087.50        0.44821
         483512.50    3718087.50        0.48407                    483537.50
3718087.50        0.52743
         483562.50    3718087.50        0.57470                    483587.50
3718087.50        0.62504
         483612.50    3718087.50        0.68923                    483637.50
3718087.50        0.75691
         483662.50    3718087.50        0.82762                    484512.50
3718087.50        1.02973
         484537.50    3718087.50        0.93734                    484562.50
3718087.50        0.85554
         484587.50    3718087.50        0.78243                    484612.50
3718087.50        0.71751
         484637.50    3718087.50        0.65968                    484662.50
3718087.50        0.60838
         484687.50    3718087.50        0.56373                    483412.50
3718112.50        0.35658
```

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         483437.50    3718112.50        0.37982                       483462.50
3718112.50        0.40834
         483487.50    3718112.50        0.43946                       483512.50
3718112.50        0.47375
         483537.50    3718112.50        0.51304                       483562.50
3718112.50        0.55686
         483587.50    3718112.50        0.61329                       483612.50
3718112.50        0.66874
         483637.50    3718112.50        0.73019                       483662.50
3718112.50        0.79944
♠ *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 479
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN3     ***
                                  INCLUDING SOURCE(S):     GEN3        ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         483687.50    3718112.50        0.88082                       484512.50
3718112.50        1.03193
         484537.50    3718112.50        0.94234                       484562.50
3718112.50        0.86283
         484587.50    3718112.50        0.79114                       484612.50
3718112.50        0.72717
         484637.50    3718112.50        0.66936                       484662.50
3718112.50        0.61836
         484687.50    3718112.50        0.57311                       483412.50
3718137.50        0.35225
         483437.50    3718137.50        0.37468                       483462.50
3718137.50        0.40261
         483487.50    3718137.50        0.43134                       483512.50
3718137.50        0.46378
         483537.50    3718137.50        0.49909                       483562.50
3718137.50        0.53991
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         483587.50    3718137.50        0.58686                    483612.50
3718137.50        0.64048
         483637.50    3718137.50        0.70034                    483662.50
3718137.50        0.77129
         483687.50    3718137.50        0.85000                    484512.50
3718137.50        1.02696
         484537.50    3718137.50        0.94179                    484562.50
3718137.50        0.86576
         484587.50    3718137.50        0.79713                    484612.50
3718137.50        0.73416
         484637.50    3718137.50        0.67733                    484662.50
3718137.50        0.62696
         484687.50    3718137.50        0.58196                    483412.50
3718162.50        0.34931
         483437.50    3718162.50        0.37084                    483462.50
3718162.50        0.39585
         483487.50    3718162.50        0.42348                    483512.50
3718162.50        0.45480
         483537.50    3718162.50        0.48957                    483562.50
3718162.50        0.52616
         483587.50    3718162.50        0.56842                    483612.50
3718162.50        0.61790
         483637.50    3718162.50        0.67810                    483662.50
3718162.50        0.74354
         483687.50    3718162.50        0.81754                    484512.50
3718162.50        1.01351
         484537.50    3718162.50        0.93536                    484562.50
3718162.50        0.86302
         484587.50    3718162.50        0.79742                    484612.50
3718162.50        0.73732
         484637.50    3718162.50        0.68273                    484662.50
3718162.50        0.63350
         484687.50    3718162.50        0.58929                    484712.50
3718162.50        0.54918
         484737.50    3718162.50        0.51309                    484762.50
3718162.50        0.48020
         484787.50    3718162.50        0.45027                    484812.50
3718162.50        0.42327
         484837.50    3718162.50        0.39848                    484862.50
3718162.50        0.37570
         483412.50    3718187.50        0.34466                    483437.50
3718187.50        0.36386
         483462.50    3718187.50        0.38880                    483487.50
3718187.50        0.41644
         483512.50    3718187.50        0.44655                    483537.50
3718187.50        0.48169
         483562.50    3718187.50        0.51623                    484512.50
3718187.50        0.99263
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         484537.50    3718187.50        0.92110                        484562.50
3718187.50        0.85510
         484587.50    3718187.50        0.79399                        484612.50
3718187.50        0.73695
         484637.50    3718187.50        0.68486                        484662.50
3718187.50        0.63709
         484687.50    3718187.50        0.59396                        484712.50
3718187.50        0.55473
         484737.50    3718187.50        0.51880                        484762.50
3718187.50        0.48610
         484787.50    3718187.50        0.45632                        484812.50
3718187.50        0.42906
         484837.50    3718187.50        0.40406                        484862.50
3718187.50        0.38180
         484162.50    3718212.50        1.60984                        484187.50
3718212.50        1.62824
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 480
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN3     ***
                                  INCLUDING SOURCE(S):     GEN3        ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
         484212.50    3718212.50        1.63746                        484512.50
3718212.50        0.96538
         484537.50    3718212.50        0.90184                        484562.50
3718212.50        0.84185
         484587.50    3718212.50        0.78511                        484612.50
3718212.50        0.73223
         484637.50    3718212.50        0.68291                        484662.50
3718212.50        0.63754
         484687.50    3718212.50        0.59597                        484712.50
3718212.50        0.55775
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         484737.50    3718212.50        0.52280                    484762.50
3718212.50        0.49062
         484787.50    3718212.50        0.46096                    484812.50
3718212.50        0.43375
         484837.50    3718212.50        0.40979                    484862.50
3718212.50        0.38759
         484512.50    3718237.50        0.93316                    484537.50
3718237.50        0.87722
         484562.50    3718237.50        0.82353                    484587.50
3718237.50        0.77203
         484612.50    3718237.50        0.72351                    484637.50
3718237.50        0.67733
         484662.50    3718237.50        0.63466                    484687.50
3718237.50        0.59506
         484712.50    3718237.50        0.55841                    484737.50
3718237.50        0.52467
         484762.50    3718237.50        0.49323                    484787.50
3718237.50        0.46427
         484812.50    3718237.50        0.43779                    484837.50
3718237.50        0.41385
         484862.50    3718237.50        0.39151                    483412.50
3718262.50        0.32550
         483437.50    3718262.50        0.34419                    484137.50
3718262.50        1.21255
         484162.50    3718262.50        1.23177                    484212.50
3718262.50        1.26150
         484512.50    3718262.50        0.89642                    484537.50
3718262.50        0.84843
         484562.50    3718262.50        0.80102                    484587.50
3718262.50        0.75495
         484612.50    3718262.50        0.71060                    484637.50
3718262.50        0.66843
         484662.50    3718262.50        0.62858                    484687.50
3718262.50        0.59093
         484712.50    3718262.50        0.55646                    484737.50
3718262.50        0.52426
         484762.50    3718262.50        0.49422                    484787.50
3718262.50        0.46599
         484812.50    3718262.50        0.44033                    484837.50
3718262.50        0.41658
         484862.50    3718262.50        0.39455                    483412.50
3718287.50        0.32253
         483437.50    3718287.50        0.33998                    484212.50
3718287.50        1.11573
         484512.50    3718287.50        0.85647                    484537.50
3718287.50        0.81591
         484562.50    3718287.50        0.77456                    484587.50
3718287.50        0.73396
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         484612.50    3718287.50        0.69435                        484637.50
3718287.50        0.65615
         484662.50    3718287.50        0.61957                        484687.50
3718287.50        0.58428
         484712.50    3718287.50        0.55171                        484737.50
3718287.50        0.52134
         484762.50    3718287.50        0.49279                        484787.50
3718287.50        0.46600
         484812.50    3718287.50        0.44092                        484837.50
3718287.50        0.41777
         484862.50    3718287.50        0.39632                        483412.50
3718312.50        0.31680
         483437.50    3718312.50        0.33343                        484187.50
3718312.50        0.98318
         483412.50    3718337.50        0.31281                        483437.50
3718337.50        0.32994
         484187.50    3718337.50        0.88132                        483412.50
3718412.50        0.29923
         483437.50    3718412.50        0.31716                        483412.50
3718437.50        0.29406
         483437.50    3718437.50        0.31119                        484462.50
3718462.50        0.58619
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***        09:53:15

                                    PAGE 481
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN3      ***
                                    INCLUDING SOURCE(S):     GEN3        ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                              ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         484487.50    3718462.50        0.58093                        484462.50
3718487.50        0.54573
         484487.50    3718487.50        0.54231
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: GEN4 ***
INCLUDING SOURCE(S): GEN4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
481950.00	3715450.00	0.05229	482050.00	3715450.00	0.05349
482150.00	3715450.00	0.05425	482250.00	3715450.00	0.05615
482350.00	3715450.00	0.05779	482450.00	3715450.00	0.05866
482550.00	3715450.00	0.06004	482650.00	3715450.00	0.06171
482750.00	3715450.00	0.06361	482850.00	3715450.00	0.06569
482950.00	3715450.00	0.06734	483050.00	3715450.00	0.06933
483150.00	3715450.00	0.07106	483250.00	3715450.00	0.07248
483350.00	3715450.00	0.07395	483450.00	3715450.00	0.07520
483550.00	3715450.00	0.07645	483650.00	3715450.00	0.07704
483750.00	3715450.00	0.07831	483850.00	3715450.00	0.07948
483950.00	3715450.00	0.08021	484050.00	3715450.00	0.08059
484150.00	3715450.00	0.08057	484250.00	3715450.00	0.08089
484350.00	3715450.00	0.08177	484450.00	3715450.00	0.08235

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         481950.00    3715550.00        0.05360                    482050.00
3715550.00        0.05508
         482150.00    3715550.00        0.05598                    482250.00
3715550.00        0.05780
         482350.00    3715550.00        0.05894                    482550.00
3715550.00        0.06220
         482650.00    3715550.00        0.06399                    482750.00
3715550.00        0.06572
         482850.00    3715550.00        0.06761                    482950.00
3715550.00        0.06989
         483050.00    3715550.00        0.07224                    483150.00
3715550.00        0.07423
         483250.00    3715550.00        0.07599                    483350.00
3715550.00        0.07745
         483450.00    3715550.00        0.07879                    483550.00
3715550.00        0.08020
         483650.00    3715550.00        0.08134                    483750.00
3715550.00        0.08226
         483850.00    3715550.00        0.08394                    483950.00
3715550.00        0.08480
         484050.00    3715550.00        0.08547                    484250.00
3715550.00        0.08575
         484350.00    3715550.00        0.08555                    484450.00
3715550.00        0.08598
         484550.00    3715550.00        0.08705                    484950.00
3715550.00        0.09146
         485050.00    3715550.00        0.09027                    481950.00
3715650.00        0.05509
         482050.00    3715650.00        0.05658                    482150.00
3715650.00        0.05821
         482250.00    3715650.00        0.05946                    482350.00
3715650.00        0.06072
         482450.00    3715650.00        0.06263                    482650.00
3715650.00        0.06640
         482750.00    3715650.00        0.06870                    482850.00
3715650.00        0.07056
         482950.00    3715650.00        0.07222                    483050.00
3715650.00        0.07476
         483150.00    3715650.00        0.07745                    483250.00
3715650.00        0.07980
         483350.00    3715650.00        0.08164                    483450.00
3715650.00        0.08305
         483550.00    3715650.00        0.08473                    483650.00
3715650.00        0.08548
         483750.00    3715650.00        0.08742                    483850.00
3715650.00        0.08776
         483950.00    3715650.00        0.08973                    484050.00
3715650.00        0.08957
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484150.00	3715650.00	0.08988	484350.00	3715650.00	0.09140
484450.00	3715650.00	0.09051	484550.00	3715650.00	0.09116
484650.00	3715650.00	0.09146	484750.00	3715650.00	0.09216

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: GEN4 ***
INCLUDING SOURCE(S): GEN4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
484950.00	3715650.00	0.09365	485050.00	3715650.00	0.09275
481950.00	3715750.00	0.05652	482050.00	3715750.00	0.05818
482150.00	3715750.00	0.05947	482250.00	3715750.00	0.06094
482350.00	3715750.00	0.06300	482450.00	3715750.00	0.06499
482550.00	3715750.00	0.06737	482750.00	3715750.00	0.07104
482850.00	3715750.00	0.07436	482950.00	3715750.00	0.07587
483050.00	3715750.00	0.07853	483150.00	3715750.00	0.08151
483250.00	3715750.00	0.08363	483350.00	3715750.00	0.08599
483450.00	3715750.00	0.08739	483550.00	3715750.00	0.08958
483650.00	3715750.00	0.09067	483750.00	3715750.00	0.09234

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         483850.00    3715750.00        0.09343                    483950.00
3715750.00        0.09464
         484050.00    3715750.00        0.09582                    484150.00
3715750.00        0.09562
         484250.00    3715750.00        0.09527                    484550.00
3715750.00        0.09559
         484650.00    3715750.00        0.09549                    484750.00
3715750.00        0.09548
         484850.00    3715750.00        0.09479                    484950.00
3715750.00        0.09438
         485050.00    3715750.00        0.09366                    481950.00
3715850.00        0.05823
         482050.00    3715850.00        0.06007                    482150.00
3715850.00        0.06120
         482250.00    3715850.00        0.06350                    482350.00
3715850.00        0.06530
         482450.00    3715850.00        0.06764                    482550.00
3715850.00        0.06974
         482650.00    3715850.00        0.07218                    482750.00
3715850.00        0.07480
         482850.00    3715850.00        0.07732                    482950.00
3715850.00        0.07979
         483050.00    3715850.00        0.08200                    483150.00
3715850.00        0.08547
         483350.00    3715850.00        0.09058                    483450.00
3715850.00        0.09260
         483550.00    3715850.00        0.09479                    483650.00
3715850.00        0.09642
         483750.00    3715850.00        0.09888                    483850.00
3715850.00        0.10004
         483950.00    3715850.00        0.10059                    484050.00
3715850.00        0.10230
         484150.00    3715850.00        0.10221                    484250.00
3715850.00        0.10182
         484550.00    3715850.00        0.10222                    484650.00
3715850.00        0.10114
         484750.00    3715850.00        0.10039                    484850.00
3715850.00        0.09950
         485150.00    3715850.00        0.09690                    485250.00
3715850.00        0.09782
         481950.00    3715950.00        0.05992                    482050.00
3715950.00        0.06137
         482150.00    3715950.00        0.06343                    482250.00
3715950.00        0.06585
         482350.00    3715950.00        0.06791                    482450.00
3715950.00        0.07002
         482550.00    3715950.00        0.07267                    482650.00
3715950.00        0.07495
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         482750.00    3715950.00        0.07744                         482850.00
3715950.00        0.08047
         482950.00    3715950.00        0.08397                         483050.00
3715950.00        0.08700
         483350.00    3715950.00        0.09575                         483450.00
3715950.00        0.09867
         483550.00    3715950.00        0.10054                         483650.00
3715950.00        0.10270
         483750.00    3715950.00        0.10453                         483850.00
3715950.00        0.10732
         483950.00    3715950.00        0.10731                         484050.00
3715950.00        0.10916
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 484
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN4     ***
                                  INCLUDING SOURCE(S):     GEN4        ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                            ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         484150.00    3715950.00        0.11000                         484250.00
3715950.00        0.10946
         484850.00    3715950.00        0.10539                         485150.00
3715950.00        0.10236
         485250.00    3715950.00        0.10419                         481950.00
3716050.00        0.06169
         482050.00    3716050.00        0.06345                         482150.00
3716050.00        0.06566
         482250.00    3716050.00        0.06807                         482350.00
3716050.00        0.07031
         482450.00    3716050.00        0.07277                         482550.00
3716050.00        0.07557
         482650.00    3716050.00        0.07831                         482750.00
3716050.00        0.08079
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```
         482850.00    3716050.00        0.08449                    482950.00
3716050.00        0.08768
         483050.00    3716050.00        0.09114                    483150.00
3716050.00        0.09421
         483350.00    3716050.00        0.10136                    483450.00
3716050.00        0.10486
         483550.00    3716050.00        0.10743                    483650.00
3716050.00        0.10941
         483750.00    3716050.00        0.11262                    483850.00
3716050.00        0.11490
         483950.00    3716050.00        0.11604                    484050.00
3716050.00        0.11680
         484150.00    3716050.00        0.11849                    484250.00
3716050.00        0.11773
         484450.00    3716050.00        0.11625                    484750.00
3716050.00        0.11363
         484850.00    3716050.00        0.11205                    485050.00
3716050.00        0.10903
         485150.00    3716050.00        0.10807                    485250.00
3716050.00        0.10887
         485350.00    3716050.00        0.10510                    485450.00
3716050.00        0.10449
         481950.00    3716150.00        0.06361                    482050.00
3716150.00        0.06578
         482150.00    3716150.00        0.06801                    482250.00
3716150.00        0.07049
         482350.00    3716150.00        0.07315                    482450.00
3716150.00        0.07571
         482550.00    3716150.00        0.07849                    482650.00
3716150.00        0.08166
         482750.00    3716150.00        0.08481                    482850.00
3716150.00        0.08810
         482950.00    3716150.00        0.09217                    483050.00
3716150.00        0.09615
         483150.00    3716150.00        0.09953                    483450.00
3716150.00        0.11177
         483550.00    3716150.00        0.11514                    483650.00
3716150.00        0.11761
         483750.00    3716150.00        0.12117                    483850.00
3716150.00        0.12364
         483950.00    3716150.00        0.12564                    484150.00
3716150.00        0.12792
         484250.00    3716150.00        0.12752                    484350.00
3716150.00        0.12739
         484450.00    3716150.00        0.12599                    484850.00
3716150.00        0.11968
         484950.00    3716150.00        0.11766                    485150.00
3716150.00        0.11383
```

485250.00 3716150.00 0.11168 485350.00 3716150.00 0.10992
485450.00 3716150.00 0.10837 481950.00 3716250.00 0.06549
482050.00 3716250.00 0.06814 482150.00 3716250.00 0.07071
482250.00 3716250.00 0.07323 482350.00 3716250.00 0.07585
482450.00 3716250.00 0.07878 482550.00 3716250.00 0.08190
482650.00 3716250.00 0.08522 482750.00 3716250.00 0.08882
482850.00 3716250.00 0.09285 482950.00 3716250.00 0.09701
483050.00 3716250.00 0.10120 483150.00 3716250.00 0.10567
483450.00 3716250.00 0.11917 483550.00 3716250.00 0.12357

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: GEN4 ***
INCLUDING SOURCE(S): GEN4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
483650.00	3716250.00	0.12720	483750.00	3716250.00	0.13082
483850.00	3716250.00	0.13381	483950.00	3716250.00	0.13580
484150.00	3716250.00	0.14103	484850.00	3716250.00	0.12943
484950.00	3716250.00	0.12735	485050.00	3716250.00	0.12295

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         485150.00    3716250.00        0.12049                    485250.00
3716250.00        0.11833
         485350.00    3716250.00        0.11633                    481950.00
3716350.00        0.06771
         482050.00    3716350.00        0.07065                    482150.00
3716350.00        0.07345
         482250.00    3716350.00        0.07685                    482350.00
3716350.00        0.07927
         482450.00    3716350.00        0.08218                    482550.00
3716350.00        0.08555
         482650.00    3716350.00        0.08927                    482750.00
3716350.00        0.09334
         482850.00    3716350.00        0.09745                    482950.00
3716350.00        0.10231
         483050.00    3716350.00        0.10721                    483150.00
3716350.00        0.11233
         483450.00    3716350.00        0.12815                    483550.00
3716350.00        0.13326
         483650.00    3716350.00        0.13776                    483750.00
3716350.00        0.14227
         483850.00    3716350.00        0.14596                    483950.00
3716350.00        0.14846
         484850.00    3716350.00        0.13903                    484950.00
3716350.00        0.13823
         481950.00    3716450.00        0.07027                    482550.00
3716450.00        0.08984
         482650.00    3716450.00        0.09385                    482750.00
3716450.00        0.09818
         482850.00    3716450.00        0.10230                    482950.00
3716450.00        0.10835
         483050.00    3716450.00        0.11441                    483150.00
3716450.00        0.12007
         483450.00    3716450.00        0.13875                    483550.00
3716450.00        0.14475
         483650.00    3716450.00        0.15016                    483750.00
3716450.00        0.15519
         483850.00    3716450.00        0.16009                    483950.00
3716450.00        0.16339
         484050.00    3716450.00        0.16569                    485150.00
3716450.00        0.14016
         482650.00    3716550.00        0.09973                    482750.00
3716550.00        0.10387
         482850.00    3716550.00        0.10828                    482950.00
3716550.00        0.11599
         483450.00    3716550.00        0.15066                    483550.00
3716550.00        0.15863
         483650.00    3716550.00        0.16487                    483750.00
3716550.00        0.17202
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         483850.00    3716550.00        0.17758                        483950.00
3716550.00        0.18208
         484050.00    3716550.00        0.18474                        484950.00
3716550.00        0.15721
         485050.00    3716550.00        0.15651                        485150.00
3716550.00        0.15417
         482850.00    3716650.00        0.11481                        482950.00
3716650.00        0.12266
         483450.00    3716650.00        0.16294                        483550.00
3716650.00        0.17357
         483650.00    3716650.00        0.18345                        483750.00
3716650.00        0.19298
         483850.00    3716650.00        0.19870                        483950.00
3716650.00        0.20505
         484050.00    3716650.00        0.20863                        485250.00
3716650.00        0.15257
         481950.00    3716750.00        0.07499                        482650.00
3716750.00        0.11165
         482750.00    3716750.00        0.11790                        482850.00
3716750.00        0.12212
         482950.00    3716750.00        0.13131                        483050.00
3716750.00        0.13968
         483150.00    3716750.00        0.15088                        483450.00
3716750.00        0.17915
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 486
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN4     ***
                                  INCLUDING SOURCE(S):     GEN4        ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                            ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
         483550.00    3716750.00        0.19277                        483650.00
3716750.00        0.20998
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         483750.00    3716750.00        0.22126                    483850.00
3716750.00        0.22558
         483950.00    3716750.00        0.23305                    484050.00
3716750.00        0.23785
         485150.00    3716750.00        0.16997                    485250.00
3716750.00        0.16097
         485350.00    3716750.00        0.15253                    485450.00
3716750.00        0.14349
         485550.00    3716750.00        0.13663                    485650.00
3716750.00        0.12570
         481950.00    3716850.00        0.07694                    482050.00
3716850.00        0.08073
         482150.00    3716850.00        0.08474                    482650.00
3716850.00        0.11779
         482750.00    3716850.00        0.12435                    482850.00
3716850.00        0.13120
         482950.00    3716850.00        0.14166                    483050.00
3716850.00        0.15409
         483150.00    3716850.00        0.16321                    483250.00
3716850.00        0.17200
         484050.00    3716850.00        0.28337                    485550.00
3716850.00        0.13970
         485650.00    3716850.00        0.12838                    481950.00
3716950.00        0.07866
         482050.00    3716950.00        0.08243                    482150.00
3716950.00        0.08709
         482250.00    3716950.00        0.09227                    482350.00
3716950.00        0.09791
         482450.00    3716950.00        0.10435                    483150.00
3716950.00        0.17612
         483250.00    3716950.00        0.18827                    485550.00
3716950.00        0.14098
         485650.00    3716950.00        0.13020                    481950.00
3717050.00        0.08031
         482050.00    3717050.00        0.08444                    482150.00
3717050.00        0.08943
         482250.00    3717050.00        0.09511                    482350.00
3717050.00        0.10092
         482450.00    3717050.00        0.10759                    482550.00
3717050.00        0.11487
         482650.00    3717050.00        0.12345                    482850.00
3717050.00        0.14512
         482950.00    3717050.00        0.16155                    483250.00
3717050.00        0.21256
         485350.00    3717050.00        0.16999                    485450.00
3717050.00        0.15713
         485550.00    3717050.00        0.14304                    485650.00
3717050.00        0.13139
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         486250.00    3717050.00        0.08114                          481950.00
3717150.00        0.08128
         482050.00    3717150.00        0.08650                          482150.00
3717150.00        0.09225
         482250.00    3717150.00        0.09712                          482350.00
3717150.00        0.10351
         482450.00    3717150.00        0.11116                          482550.00
3717150.00        0.11833
         482650.00    3717150.00        0.12848                          482750.00
3717150.00        0.13938
         482850.00    3717150.00        0.15096                          482950.00
3717150.00        0.16609
         483050.00    3717150.00        0.18707                          485350.00
3717150.00        0.17457
         485450.00    3717150.00        0.15838                          485550.00
3717150.00        0.14322
         485650.00    3717150.00        0.13149                          481950.00
3717250.00        0.08306
         482050.00    3717250.00        0.08771                          482150.00
3717250.00        0.09322
         482250.00    3717250.00        0.10054                          482350.00
3717250.00        0.10755
         482450.00    3717250.00        0.11390                          482550.00
3717250.00        0.12238
         482650.00    3717250.00        0.13282                          482750.00
3717250.00        0.14567
         482850.00    3717250.00        0.15876                          482950.00
3717250.00        0.17347
         483050.00    3717250.00        0.19402                          483150.00
3717250.00        0.22032
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 487
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN4     ***
                                  INCLUDING SOURCE(S):     GEN4        ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                            ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **
```

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
483250.00	3717250.00	0.25066	483350.00	3717250.00	0.28611
483450.00	3717250.00	0.32162	483850.00	3717250.00	0.54466
483950.00	3717250.00	0.61007	486150.00	3717250.00	0.09528
486250.00	3717250.00	0.09035	481950.00	3717350.00	0.08463
482050.00	3717350.00	0.08930	482150.00	3717350.00	0.09460
482250.00	3717350.00	0.10151	482350.00	3717350.00	0.10904
482450.00	3717350.00	0.11724	482550.00	3717350.00	0.12590
482650.00	3717350.00	0.13738	482750.00	3717350.00	0.15119
482850.00	3717350.00	0.16571	482950.00	3717350.00	0.18189
483050.00	3717350.00	0.20445	483150.00	3717350.00	0.23256
483250.00	3717350.00	0.26695	483350.00	3717350.00	0.30969
483450.00	3717350.00	0.35816	483850.00	3717350.00	0.71222
483950.00	3717350.00	0.80876	484050.00	3717350.00	0.88113
484650.00	3717350.00	0.51015	484750.00	3717350.00	0.42970
486050.00	3717350.00	0.09897	486150.00	3717350.00	0.09362
486250.00	3717350.00	0.08875	481950.00	3717450.00	0.08627
482050.00	3717450.00	0.09123	482150.00	3717450.00	0.09627
482250.00	3717450.00	0.10365	482350.00	3717450.00	0.11068
482450.00	3717450.00	0.11921	482750.00	3717450.00	0.15684
482850.00	3717450.00	0.17228	482950.00	3717450.00	0.19030
483050.00	3717450.00	0.21426	483150.00	3717450.00	0.24543
483250.00	3717450.00	0.28610	483350.00	3717450.00	0.33833

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         483450.00    3717450.00        0.40570                        483550.00
3717450.00        0.49285
         483850.00    3717450.00        0.92561                        483950.00
3717450.00        1.12337
         484050.00    3717450.00        1.24077                        484550.00
3717450.00        0.71652
         484650.00    3717450.00        0.58524                        484750.00
3717450.00        0.46825
         481950.00    3717550.00        0.08806                        482050.00
3717550.00        0.09339
         482150.00    3717550.00        0.09931                        482250.00
3717550.00        0.10552
         482350.00    3717550.00        0.11328                        482450.00
3717550.00        0.12211
         482750.00    3717550.00        0.16046                        482850.00
3717550.00        0.17704
         482950.00    3717550.00        0.19634                        483050.00
3717550.00        0.22312
         483250.00    3717550.00        0.30519                        483350.00
3717550.00        0.36710
         483450.00    3717550.00        0.46149                        483550.00
3717550.00        0.57836
         483950.00    3717550.00        1.77339                        484050.00
3717550.00        2.04180
         485850.00    3717550.00        0.11271                        485950.00
3717550.00        0.10528
         481950.00    3717650.00        0.08550                        482050.00
3717650.00        0.09412
         482150.00    3717650.00        0.10068                        482250.00
3717650.00        0.10737
         482350.00    3717650.00        0.11540                        482450.00
3717650.00        0.12431
         482550.00    3717650.00        0.13551                        482650.00
3717650.00        0.14767
         482750.00    3717650.00        0.16335                        482850.00
3717650.00        0.18074
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                        ***       09:53:15

                                  PAGE 488
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                  *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN4     ***
                                  INCLUDING SOURCE(S):     GEN4        ,
```

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
482950.00	3717650.00	0.20273	483350.00	3717650.00	0.39364
484550.00	3717650.00	0.89300	484650.00	3717650.00	0.65576
484750.00	3717650.00	0.50253	484850.00	3717650.00	0.39785
485150.00	3717650.00	0.23564	485450.00	3717650.00	0.15936
485550.00	3717650.00	0.14505	482250.00	3717750.00	0.10773
482350.00	3717750.00	0.11216	482450.00	3717750.00	0.12028
482550.00	3717750.00	0.13241	482650.00	3717750.00	0.14689
482750.00	3717750.00	0.16588	482850.00	3717750.00	0.18371
482950.00	3717750.00	0.20777	484550.00	3717750.00	0.93086
484650.00	3717750.00	0.66564	484750.00	3717750.00	0.50572
484850.00	3717750.00	0.39905	485150.00	3717750.00	0.23418
485450.00	3717750.00	0.15900	485550.00	3717750.00	0.14464
485650.00	3717750.00	0.13274	485750.00	3717750.00	0.12173
485850.00	3717750.00	0.11254	485950.00	3717750.00	0.10488
486050.00	3717750.00	0.09831	482250.00	3717850.00	0.10358
482650.00	3717850.00	0.14164	482750.00	3717850.00	0.16242
482850.00	3717850.00	0.18559	482950.00	3717850.00	0.20966
483350.00	3717850.00	0.42448	483450.00	3717850.00	0.55192
484550.00	3717850.00	0.96826	484650.00	3717850.00	0.68006

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         484750.00    3717850.00        0.51329                        484850.00
3717850.00        0.40344
         484950.00    3717850.00        0.32806                        485150.00
3717850.00        0.23424
         485250.00    3717850.00        0.20342                        485450.00
3717850.00        0.16122
         485550.00    3717850.00        0.14631                        485650.00
3717850.00        0.13360
         485750.00    3717850.00        0.12228                        485850.00
3717850.00        0.11354
         485950.00    3717850.00        0.10624                        486050.00
3717850.00        0.09903
         481950.00    3717950.00        0.07414                        482250.00
3717950.00        0.09916
         482350.00    3717950.00        0.10071                        482750.00
3717950.00        0.15607
         483350.00    3717950.00        0.42455                        483450.00
3717950.00        0.55217
         483550.00    3717950.00        0.75880                        484550.00
3717950.00        1.02125
         484650.00    3717950.00        0.71213                        484750.00
3717950.00        0.53090
         484850.00    3717950.00        0.41541                        484950.00
3717950.00        0.33589
         485350.00    3717950.00        0.18221                        485450.00
3717950.00        0.16217
         485550.00    3717950.00        0.14812                        485650.00
3717950.00        0.13407
         485750.00    3717950.00        0.12288                        485850.00
3717950.00        0.11452
         485950.00    3717950.00        0.10723                        486050.00
3717950.00        0.10018
         481950.00    3718050.00        0.07505                        482050.00
3718050.00        0.07786
         482750.00    3718050.00        0.15404                        482850.00
3718050.00        0.17633
         482950.00    3718050.00        0.19663                        483050.00
3718050.00        0.22797
         483150.00    3718050.00        0.26524                        483250.00
3718050.00        0.31656
         483350.00    3718050.00        0.39714                        483450.00
3718050.00        0.51339
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: GEN4 ***

INCLUDING SOURCE(S): GEN4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
483550.00	3718050.00	0.72129	483650.00	3718050.00	1.06517
484550.00	3718050.00	1.11061	484650.00	3718050.00	0.76249
485450.00	3718050.00	0.16552	485550.00	3718050.00	0.14901
485650.00	3718050.00	0.13487	485750.00	3718050.00	0.12345
485850.00	3718050.00	0.11443	485950.00	3718050.00	0.10691
486050.00	3718050.00	0.10014	481950.00	3718150.00	0.07743
482050.00	3718150.00	0.07914	482150.00	3718150.00	0.08232
482250.00	3718150.00	0.08898	482350.00	3718150.00	0.09696
482650.00	3718150.00	0.13327	482750.00	3718150.00	0.15063
482850.00	3718150.00	0.15918	482950.00	3718150.00	0.17844
483050.00	3718150.00	0.20556	483150.00	3718150.00	0.24488
483350.00	3718150.00	0.36673	483450.00	3718150.00	0.46900
483550.00	3718150.00	0.63038	483650.00	3718150.00	0.90384
484550.00	3718150.00	1.12850	484650.00	3718150.00	0.80214
485250.00	3718150.00	0.21464	485550.00	3718150.00	0.15025
485650.00	3718150.00	0.13628	485750.00	3718150.00	0.12476

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         481950.00    3718250.00        0.07828                    482050.00
3718250.00        0.08067
         482150.00    3718250.00        0.08287                    482250.00
3718250.00        0.08662
         482350.00    3718250.00        0.09580                    482450.00
3718250.00        0.10590
         482550.00    3718250.00        0.11553                    482650.00
3718250.00        0.12997
         482750.00    3718250.00        0.14293                    482850.00
3718250.00        0.14187
         482950.00    3718250.00        0.15467                    483250.00
3718250.00        0.26093
         484550.00    3718250.00        1.03382                    484650.00
3718250.00        0.79116
         484750.00    3718250.00        0.60812                    484850.00
3718250.00        0.47634
         485150.00    3718250.00        0.25975                    485250.00
3718250.00        0.22206
         485650.00    3718250.00        0.13910                    481950.00
3718350.00        0.07473
         482050.00    3718350.00        0.07899                    482150.00
3718350.00        0.08150
         482250.00    3718350.00        0.08416                    482350.00
3718350.00        0.09273
         482450.00    3718350.00        0.10329                    482550.00
3718350.00        0.11227
         482650.00    3718350.00        0.12333                    482750.00
3718350.00        0.13565
         483150.00    3718350.00        0.18814                    483450.00
3718350.00        0.39602
         485250.00    3718350.00        0.22959                    485350.00
3718350.00        0.19945
         485550.00    3718350.00        0.15570                    485650.00
3718350.00        0.14301
         486150.00    3718350.00        0.09471                    486250.00
3718350.00        0.08915
         481950.00    3718450.00        0.07220                    482050.00
3718450.00        0.07687
         482150.00    3718450.00        0.07936                    482250.00
3718450.00        0.08228
         482350.00    3718450.00        0.08926                    482450.00
3718450.00        0.09871
         482550.00    3718450.00        0.10854                    482650.00
3718450.00        0.11842
         482750.00    3718450.00        0.12973                    482850.00
3718450.00        0.13699
         483350.00    3718450.00        0.28824                    484450.00
3718450.00        0.73334
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: GEN4 ***
INCLUDING SOURCE(S): GEN4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
485150.00	3718450.00	0.27592	485250.00	3718450.00	0.23550
485350.00	3718450.00	0.20574	485750.00	3718450.00	0.13119
485850.00	3718450.00	0.11911	485950.00	3718450.00	0.10947
486050.00	3718450.00	0.10258	481950.00	3718550.00	0.06948
482050.00	3718550.00	0.07367	482150.00	3718550.00	0.07835
482250.00	3718550.00	0.08240	482350.00	3718550.00	0.08776
482450.00	3718550.00	0.09634	482550.00	3718550.00	0.10453
482650.00	3718550.00	0.11290	482750.00	3718550.00	0.12617
482850.00	3718550.00	0.13624	482950.00	3718550.00	0.14642
483550.00	3718550.00	0.37374	484650.00	3718550.00	0.50754
484750.00	3718550.00	0.46448	484850.00	3718550.00	0.41526
485850.00	3718550.00	0.12185	485950.00	3718550.00	0.11250
482050.00	3718650.00	0.07114	482150.00	3718650.00	0.07611

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         482250.00    3718650.00        0.08175                    482350.00
3718650.00        0.08815
         482450.00    3718650.00        0.09388                    482550.00
3718650.00        0.10126
         482650.00    3718650.00        0.11095                    482750.00
3718650.00        0.12191
         482850.00    3718650.00        0.13542                    482950.00
3718650.00        0.15101
         485150.00    3718650.00        0.26526                    485450.00
3718650.00        0.18747
         485550.00    3718650.00        0.16707                    485650.00
3718650.00        0.14939
         485850.00    3718650.00        0.12617                    485950.00
3718650.00        0.11411
         486050.00    3718650.00        0.10683                    482050.00
3718750.00        0.06993
         482150.00    3718750.00        0.07481                    482250.00
3718750.00        0.07921
         482350.00    3718750.00        0.08538                    482450.00
3718750.00        0.09224
         482550.00    3718750.00        0.09990                    482650.00
3718750.00        0.10851
         482750.00    3718750.00        0.12021                    482850.00
3718750.00        0.13403
         482950.00    3718750.00        0.14870                    483050.00
3718750.00        0.16731
         484950.00    3718750.00        0.29932                    485050.00
3718750.00        0.27782
         485150.00    3718750.00        0.25484                    485850.00
3718750.00        0.12896
         485950.00    3718750.00        0.11748                    486050.00
3718750.00        0.10834
         482350.00    3718850.00        0.08393                    482450.00
3718850.00        0.09071
         482550.00    3718850.00        0.09813                    482650.00
3718850.00        0.10710
         482750.00    3718850.00        0.11887                    482850.00
3718850.00        0.13226
         482950.00    3718850.00        0.14580                    483050.00
3718850.00        0.16251
         483150.00    3718850.00        0.17542                    484150.00
3718850.00        0.27055
         484250.00    3718850.00        0.27973                    485350.00
3718850.00        0.19990
         485450.00    3718850.00        0.18247                    485750.00
3718850.00        0.14080
         485850.00    3718850.00        0.12933                    485950.00
3718850.00        0.12007
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486050.00	3718850.00	0.10982	482450.00	3718950.00	0.08930
482550.00	3718950.00	0.09732	482650.00	3718950.00	0.10588
482750.00	3718950.00	0.11739	482850.00	3718950.00	0.12922

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: GEN4 ***
INCLUDING SOURCE(S): GEN4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
482950.00	3718950.00	0.14201	483050.00	3718950.00	0.15496
483150.00	3718950.00	0.16897	483250.00	3718950.00	0.17870
485750.00	3718950.00	0.14268	485850.00	3718950.00	0.13107
485950.00	3718950.00	0.12020	486050.00	3718950.00	0.11201
482250.00	3719050.00	0.07550	482350.00	3719050.00	0.08170
482450.00	3719050.00	0.08838	482550.00	3719050.00	0.09609
482650.00	3719050.00	0.10543	482850.00	3719050.00	0.12558
482950.00	3719050.00	0.13589	483050.00	3719050.00	0.14714
483150.00	3719050.00	0.15769	483250.00	3719050.00	0.16645
483350.00	3719050.00	0.17138	483450.00	3719050.00	0.17421

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         483550.00    3719050.00        0.17503                    485250.00
3719050.00        0.18656
         485450.00    3719050.00        0.16777                    485550.00
3719050.00        0.15745
         485650.00    3719050.00        0.14838                    485750.00
3719050.00        0.13972
         482350.00    3719150.00        0.08128                    482650.00
3719150.00        0.10373
         482850.00    3719150.00        0.12166                    483050.00
3719150.00        0.13918
         483150.00    3719150.00        0.14696                    483250.00
3719150.00        0.15345
         483350.00    3719150.00        0.15702                    483450.00
3719150.00        0.15855
         483550.00    3719150.00        0.15853                    485250.00
3719150.00        0.17313
         485550.00    3719150.00        0.15098                    485650.00
3719150.00        0.14365
         485950.00    3719150.00        0.11985                    484550.00
3719250.00        0.17044
         484750.00    3719250.00        0.16850                    484850.00
3719250.00        0.16746
         484750.00    3719350.00        0.15272                    484850.00
3719350.00        0.15150
         484950.00    3719350.00        0.15005                    485050.00
3719350.00        0.14881
         485150.00    3719350.00        0.14716                    484250.00
3719450.00        0.13761
         484350.00    3719450.00        0.13963                    484450.00
3719450.00        0.14178
         484550.00    3719450.00        0.14163                    484650.00
3719450.00        0.14049
         484750.00    3719450.00        0.13950                    484850.00
3719450.00        0.13855
         484950.00    3719450.00        0.13784                    485050.00
3719450.00        0.13693
         485150.00    3719450.00        0.13525                    485250.00
3719450.00        0.13401
         485350.00    3719450.00        0.13243                    485450.00
3719450.00        0.12966
         485550.00    3719450.00        0.12713                    484250.00
3719550.00        0.12513
         484350.00    3719550.00        0.12719                    484450.00
3719550.00        0.12911
         484550.00    3719550.00        0.13066                    484650.00
3719550.00        0.12991
         484750.00    3719550.00        0.12859                    484850.00
3719550.00        0.12781
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         484950.00    3719550.00        0.12717                        485050.00
3719550.00        0.12582
         485150.00    3719550.00        0.12498                        485250.00
3719550.00        0.12363
         485350.00    3719550.00        0.12334                        485450.00
3719550.00        0.12144
         485550.00    3719550.00        0.11935                        484450.00
3719850.00        0.10376
         484550.00    3719850.00        0.10526                        484650.00
3719850.00        0.10471
         484350.00    3719950.00        0.09643                        484450.00
3719950.00        0.09647
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                       ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 492
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN4     ***
                                  INCLUDING SOURCE(S):     GEN4        ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
         484550.00    3719950.00        0.09658                        484650.00
3719950.00        0.09834
         483837.50    3717212.50        0.50504                        483862.50
3717212.50        0.51270
         483887.50    3717212.50        0.53020                        483412.50
3717237.50        0.30414
         483812.50    3717237.50        0.51328                        483837.50
3717237.50        0.52625
         483862.50    3717237.50        0.53952                        483887.50
3717237.50        0.55810
         483912.50    3717237.50        0.57340                        483937.50
3717237.50        0.58630
         483412.50    3717262.50        0.31097                        483437.50
3717262.50        0.32082
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         483462.50    3717262.50        0.33058                    483812.50
3717262.50        0.53277
         483837.50    3717262.50        0.54982                    483862.50
3717262.50        0.56694
         483887.50    3717262.50        0.58881                    483912.50
3717262.50        0.60458
         483937.50    3717262.50        0.61929                    483962.50
3717262.50        0.63851
         483987.50    3717262.50        0.65380                    483412.50
3717287.50        0.31815
         483437.50    3717287.50        0.32867                    483462.50
3717287.50        0.33959
         483487.50    3717287.50        0.35075                    483812.50
3717287.50        0.56347
         483837.50    3717287.50        0.58201                    483862.50
3717287.50        0.60129
         483887.50    3717287.50        0.62404                    483912.50
3717287.50        0.64419
         483937.50    3717287.50        0.66231                    483962.50
3717287.50        0.68160
         483987.50    3717287.50        0.69900                    484012.50
3717287.50        0.71427
         483412.50    3717312.50        0.32642                    483437.50
3717312.50        0.33753
         483462.50    3717312.50        0.34912                    483487.50
3717312.50        0.36130
         483512.50    3717312.50        0.37413                    483787.50
3717312.50        0.58101
         483812.50    3717312.50        0.60263                    483837.50
3717312.50        0.62479
         483862.50    3717312.50        0.64728                    483887.50
3717312.50        0.67014
         483912.50    3717312.50        0.69220                    483937.50
3717312.50        0.71199
         483962.50    3717312.50        0.73243                    483987.50
3717312.50        0.75138
         484012.50    3717312.50        0.76818                    484037.50
3717312.50        0.78204
         484562.50    3717312.50        0.55027                    484587.50
3717312.50        0.53172
         484612.50    3717312.50        0.51190                    484637.50
3717312.50        0.49214
         484662.50    3717312.50        0.47193                    484687.50
3717312.50        0.45262
         484712.50    3717312.50        0.43485                    484737.50
3717312.50        0.41883
         484762.50    3717312.50        0.40294                    483412.50
3717337.50        0.33525
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483437.50	3717337.50	0.34728	483462.50	3717337.50	0.35958
483487.50	3717337.50	0.37308	483512.50	3717337.50	0.38729
483537.50	3717337.50	0.40361	483787.50	3717337.50	0.61850
483812.50	3717337.50	0.64628	483837.50	3717337.50	0.67261
483862.50	3717337.50	0.69883	483887.50	3717337.50	0.72496
483912.50	3717337.50	0.74949	483937.50	3717337.50	0.76758
483962.50	3717337.50	0.78938	483987.50	3717337.50	0.81090
484012.50	3717337.50	0.82867	484037.50	3717337.50	0.84263
484562.50	3717337.50	0.57821	484587.50	3717337.50	0.55692

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: GEN4 ***
INCLUDING SOURCE(S): GEN4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
484612.50	3717337.50	0.53459	484637.50	3717337.50	0.51170
484662.50	3717337.50	0.48963	484687.50	3717337.50	0.46907
484712.50	3717337.50	0.44961	484737.50	3717337.50	0.43240
484762.50	3717337.50	0.41489	483412.50	3717362.50	0.34399

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         483437.50    3717362.50        0.35665                    483462.50
3717362.50        0.37062
         483487.50    3717362.50        0.38560                    483512.50
3717362.50        0.40149
         483537.50    3717362.50        0.41994                    483787.50
3717362.50        0.65639
         483812.50    3717362.50        0.69068                    483837.50
3717362.50        0.72285
         483862.50    3717362.50        0.75583                    483887.50
3717362.50        0.78801
         483912.50    3717362.50        0.81479                    483937.50
3717362.50        0.83441
         483962.50    3717362.50        0.85188                    483987.50
3717362.50        0.87561
         484012.50    3717362.50        0.89540                    484037.50
3717362.50        0.91052
         484562.50    3717362.50        0.60523                    484587.50
3717362.50        0.58118
         484612.50    3717362.50        0.55653                    484637.50
3717362.50        0.53166
         484662.50    3717362.50        0.50743                    484687.50
3717362.50        0.48347
         484712.50    3717362.50        0.46336                    484737.50
3717362.50        0.44471
         484762.50    3717362.50        0.42583                    484787.50
3717362.50        0.40651
         483412.50    3717387.50        0.35222                    483437.50
3717387.50        0.36686
         483462.50    3717387.50        0.38245                    483487.50
3717387.50        0.39871
         483512.50    3717387.50        0.41631                    483537.50
3717387.50        0.43607
         483562.50    3717387.50        0.45650                    483787.50
3717387.50        0.69598
         483812.50    3717387.50        0.73384                    483837.50
3717387.50        0.77187
         483862.50    3717387.50        0.81374                    483887.50
3717387.50        0.85361
         483912.50    3717387.50        0.88194                    483937.50
3717387.50        0.90271
         483962.50    3717387.50        0.92300                    483987.50
3717387.50        0.94781
         484012.50    3717387.50        0.96925                    484037.50
3717387.50        0.98665
         484062.50    3717387.50        0.99916                    484562.50
3717387.50        0.63287
         484587.50    3717387.50        0.60554                    484612.50
3717387.50        0.57851
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         484637.50    3717387.50        0.55133                        484662.50
3717387.50        0.52527
         484687.50    3717387.50        0.50039                        484712.50
3717387.50        0.47781
         484737.50    3717387.50        0.45612                        484762.50
3717387.50        0.43499
         484787.50    3717387.50        0.41422                        483412.50
3717412.50        0.36188
         483437.50    3717412.50        0.37795                        483462.50
3717412.50        0.39529
         483487.50    3717412.50        0.41331                        483512.50
3717412.50        0.43245
         483537.50    3717412.50        0.45322                        483562.50
3717412.50        0.47555
         483787.50    3717412.50        0.73855                        483812.50
3717412.50        0.77768
         483837.50    3717412.50        0.81932                        483862.50
3717412.50        0.86545
         483887.50    3717412.50        0.90876                        483912.50
3717412.50        0.94472
         483937.50    3717412.50        0.97457                        483962.50
3717412.50        1.00202
         483987.50    3717412.50        1.02935                        484012.50
3717412.50        1.05303
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN4     ***
                                  INCLUDING SOURCE(S):     GEN4        ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                            ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
         484037.50    3717412.50        1.07294                        484062.50
3717412.50        1.08615
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```
         484487.50    3717412.50        0.75003                    484512.50
3717412.50        0.71983
         484537.50    3717412.50        0.68971                    484562.50
3717412.50        0.65983
         484587.50    3717412.50        0.63023                    484612.50
3717412.50        0.60098
         484637.50    3717412.50        0.57130                    484662.50
3717412.50        0.54245
         484687.50    3717412.50        0.51652                    484712.50
3717412.50        0.49129
         484737.50    3717412.50        0.46667                    484762.50
3717412.50        0.44361
         484787.50    3717412.50        0.42173                    483412.50
3717437.50        0.37284
         483437.50    3717437.50        0.39022                    483462.50
3717437.50        0.40898
         483487.50    3717437.50        0.42851                    483512.50
3717437.50        0.44918
         483537.50    3717437.50        0.47136                    483562.50
3717437.50        0.49521
         483587.50    3717437.50        0.52002                    483837.50
3717437.50        0.86947
         483862.50    3717437.50        0.91351                    483887.50
3717437.50        0.96007
         483912.50    3717437.50        1.01242                    483937.50
3717437.50        1.05468
         483962.50    3717437.50        1.09149                    483987.50
3717437.50        1.12287
         484012.50    3717437.50        1.14966                    484037.50
3717437.50        1.17281
         484062.50    3717437.50        1.19069                    484487.50
3717437.50        0.79139
         484512.50    3717437.50        0.75528                    484537.50
3717437.50        0.72023
         484562.50    3717437.50        0.68645                    484587.50
3717437.50        0.65417
         484612.50    3717437.50        0.62312                    484637.50
3717437.50        0.59188
         484662.50    3717437.50        0.56075                    484687.50
3717437.50        0.53142
         484712.50    3717437.50        0.50300                    484737.50
3717437.50        0.47647
         484762.50    3717437.50        0.45188                    483412.50
3717462.50        0.38394
         483437.50    3717462.50        0.40246                    483462.50
3717462.50        0.42225
         483487.50    3717462.50        0.44350                    483512.50
3717462.50        0.46596
```

```
         483537.50    3717462.50        0.49030                        483562.50
3717462.50        0.51588
         483587.50    3717462.50        0.54287                        483887.50
3717462.50        1.05075
         483912.50    3717462.50        1.10891                        483937.50
3717462.50        1.15741
         483962.50    3717462.50        1.20094                        483987.50
3717462.50        1.23863
         484012.50    3717462.50        1.27148                        484037.50
3717462.50        1.29823
         484062.50    3717462.50        1.31749                        484487.50
3717462.50        0.83324
         484512.50    3717462.50        0.79161                        484537.50
3717462.50        0.75068
         484562.50    3717462.50        0.71197                        484587.50
3717462.50        0.67597
         484612.50    3717462.50        0.64301                        484637.50
3717462.50        0.60933
         484662.50    3717462.50        0.57668                        484687.50
3717462.50        0.54513
         484712.50    3717462.50        0.51322                        484737.50
3717462.50        0.48530
         484762.50    3717462.50        0.45956                        483412.50
3717487.50        0.39486
         483437.50    3717487.50        0.41450                        483462.50
3717487.50        0.43569
         483487.50    3717487.50        0.45849                        483512.50
3717487.50        0.48303
         483537.50    3717487.50        0.50942                        483562.50
3717487.50        0.53734
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 495
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN4     ***
                                  INCLUDING SOURCE(S):     GEN4        ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                            ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **
```

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
483587.50	3717487.50	0.56686	483612.50	3717487.50	0.59802
483912.50	3717487.50	1.22805	483937.50	3717487.50	1.28412
483962.50	3717487.50	1.33636	483987.50	3717487.50	1.38438
484012.50	3717487.50	1.42491	484037.50	3717487.50	1.45519
484062.50	3717487.50	1.47503	484537.50	3717487.50	0.78114
484562.50	3717487.50	0.73703	484587.50	3717487.50	0.69612
484612.50	3717487.50	0.65969	484637.50	3717487.50	0.62494
484662.50	3717487.50	0.58916	484687.50	3717487.50	0.55732
484712.50	3717487.50	0.52350	484737.50	3717487.50	0.49361
484762.50	3717487.50	0.46666	483412.50	3717512.50	0.40594
483437.50	3717512.50	0.42834	483462.50	3717512.50	0.45144
483487.50	3717512.50	0.47509	483512.50	3717512.50	0.50065
483537.50	3717512.50	0.52899	483562.50	3717512.50	0.55989
483587.50	3717512.50	0.59283	483612.50	3717512.50	0.62731
483912.50	3717512.50	1.36627	483937.50	3717512.50	1.43740
483962.50	3717512.50	1.50287	483987.50	3717512.50	1.55964
484012.50	3717512.50	1.60976	484037.50	3717512.50	1.64921
484062.50	3717512.50	1.67394	484537.50	3717512.50	0.81064
484562.50	3717512.50	0.76143	484587.50	3717512.50	0.71609
484612.50	3717512.50	0.67514	484637.50	3717512.50	0.63738
484662.50	3717512.50	0.60165	484687.50	3717512.50	0.56750
484712.50	3717512.50	0.53364	484737.50	3717512.50	0.50167

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         484762.50    3717512.50        0.47350                        483412.50
3717537.50        0.41629
         483437.50    3717537.50        0.44235                        483462.50
3717537.50        0.46826
         483487.50    3717537.50        0.49363                        483512.50
3717537.50        0.52053
         483537.50    3717537.50        0.55051                        483562.50
3717537.50        0.58335
         483587.50    3717537.50        0.61943                        483612.50
3717537.50        0.65832
         483637.50    3717537.50        0.70048                        483937.50
3717537.50        1.62286
         483962.50    3717537.50        1.70192                        483987.50
3717537.50        1.77176
         484012.50    3717537.50        1.83361                        484037.50
3717537.50        1.88418
         484062.50    3717537.50        1.91625                        483412.50
3717562.50        0.42539
         483437.50    3717562.50        0.45289                        483462.50
3717562.50        0.48107
         483487.50    3717562.50        0.50982                        483512.50
3717562.50        0.54012
         483537.50    3717562.50        0.57252                        483562.50
3717562.50        0.60833
         483587.50    3717562.50        0.64717                        483612.50
3717562.50        0.68967
         483637.50    3717562.50        0.73655                        483937.50
3717562.50        1.84231
         483962.50    3717562.50        1.94374                        483987.50
3717562.50        2.03037
         484012.50    3717562.50        2.11020                        484037.50
3717562.50        2.17354
         484062.50    3717562.50        2.21872                        483412.50
3717587.50        0.43367
         483437.50    3717587.50        0.46191                        483462.50
3717587.50        0.49208
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN4       ***
                                    INCLUDING SOURCE(S):     GEN4        ,
```

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
483487.50	3717587.50	0.52356	483512.50	3717587.50	0.55787
483537.50	3717587.50	0.59439	483562.50	3717587.50	0.63389
483587.50	3717587.50	0.67649	483612.50	3717587.50	0.72165
483637.50	3717587.50	0.77324	484512.50	3717612.50	0.98332
484537.50	3717612.50	0.90592	484562.50	3717612.50	0.83836
484587.50	3717612.50	0.77671	484612.50	3717612.50	0.72143
484637.50	3717612.50	0.67240	484662.50	3717612.50	0.62777
484687.50	3717612.50	0.58752	484712.50	3717612.50	0.55068
484737.50	3717612.50	0.51582	484762.50	3717612.50	0.48420
484787.50	3717612.50	0.45585	484812.50	3717612.50	0.43001
484837.50	3717612.50	0.40462	484862.50	3717612.50	0.38303
484512.50	3717637.50	1.00879	484537.50	3717637.50	0.92431
484562.50	3717637.50	0.85087	484587.50	3717637.50	0.78664
484612.50	3717637.50	0.72928	484637.50	3717637.50	0.67751
484662.50	3717637.50	0.63184	484687.50	3717637.50	0.59029
484712.50	3717637.50	0.55255	484737.50	3717637.50	0.51739
484762.50	3717637.50	0.48540	484787.50	3717637.50	0.45723
484812.50	3717637.50	0.43179	484837.50	3717637.50	0.40786
484862.50	3717637.50	0.38561	484512.50	3717662.50	1.02722

```
         484537.50    3717662.50        0.93890                    484562.50
3717662.50        0.86136
         484587.50    3717662.50        0.79417                    484612.50
3717662.50        0.73474
         484637.50    3717662.50        0.68137                    484662.50
3717662.50        0.63404
         484687.50    3717662.50        0.59259                    484712.50
3717662.50        0.55497
         484737.50    3717662.50        0.52065                    484762.50
3717662.50        0.48859
         484787.50    3717662.50        0.46343                    484812.50
3717662.50        0.43770
         484837.50    3717662.50        0.41120                    484862.50
3717662.50        0.38779
         484512.50    3717687.50        1.04474                    484537.50
3717687.50        0.95071
         484562.50    3717687.50        0.87080                    484587.50
3717687.50        0.80037
         484612.50    3717687.50        0.73862                    484637.50
3717687.50        0.68414
         484662.50    3717687.50        0.63596                    484687.50
3717687.50        0.59412
         484712.50    3717687.50        0.55604                    484737.50
3717687.50        0.52204
         484762.50    3717687.50        0.49251                    484787.50
3717687.50        0.46650
         484812.50    3717687.50        0.44199                    484837.50
3717687.50        0.41633
         484862.50    3717687.50        0.38967                    484512.50
3717712.50        1.06289
         484537.50    3717712.50        0.96270                    484562.50
3717712.50        0.87767
         484587.50    3717712.50        0.80530                    484612.50
3717712.50        0.74235
         484637.50    3717712.50        0.68712                    484662.50
3717712.50        0.63804
         484687.50    3717712.50        0.59491                    484712.50
3717712.50        0.55621
         484737.50    3717712.50        0.52187                    484762.50
3717712.50        0.49121
         484787.50    3717712.50        0.46340                    484812.50
3717712.50        0.43875
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: GEN4 ***

INCLUDING SOURCE(S): GEN4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
484837.50	3717712.50	0.41494	484862.50	3717712.50	0.39076
484512.50	3717737.50	1.07226	484537.50	3717737.50	0.97135
484562.50	3717737.50	0.88524	484587.50	3717737.50	0.81106
484612.50	3717737.50	0.74672	484637.50	3717737.50	0.69007
484662.50	3717737.50	0.63987	484687.50	3717737.50	0.59537
484712.50	3717737.50	0.55602	484737.50	3717737.50	0.52134
484762.50	3717737.50	0.49024	484787.50	3717737.50	0.46148
484812.50	3717737.50	0.43519	484837.50	3717737.50	0.41127
484862.50	3717737.50	0.38938	484512.50	3717762.50	1.08349
484537.50	3717762.50	0.98126	484562.50	3717762.50	0.89324
484587.50	3717762.50	0.81845	484612.50	3717762.50	0.75203
484637.50	3717762.50	0.69321	484662.50	3717762.50	0.64214
484687.50	3717762.50	0.59674	484712.50	3717762.50	0.55692
484737.50	3717762.50	0.52181	484762.50	3717762.50	0.49067
484787.50	3717762.50	0.46136	484812.50	3717762.50	0.43385
484837.50	3717762.50	0.40926	484862.50	3717762.50	0.38726

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         484512.50    3717787.50        1.09382                    484537.50
3717787.50        0.99044
         484562.50    3717787.50        0.90457                    484587.50
3717787.50        0.82656
         484612.50    3717787.50        0.75688                    484637.50
3717787.50        0.69682
         484662.50    3717787.50        0.64479                    484687.50
3717787.50        0.59925
         484712.50    3717787.50        0.55922                    484737.50
3717787.50        0.52428
         484762.50    3717787.50        0.49208                    484787.50
3717787.50        0.46240
         484812.50    3717787.50        0.43466                    484837.50
3717787.50        0.40899
         484862.50    3717787.50        0.38719                    483412.50
3717812.50        0.49315
         483437.50    3717812.50        0.52749                    483462.50
3717812.50        0.56619
         483487.50    3717812.50        0.61065                    484512.50
3717812.50        1.10468
         484537.50    3717812.50        1.00426                    484562.50
3717812.50        0.91481
         484587.50    3717812.50        0.83470                    484612.50
3717812.50        0.76229
         484637.50    3717812.50        0.70018                    484662.50
3717812.50        0.64771
         484687.50    3717812.50        0.60205                    484712.50
3717812.50        0.56200
         484737.50    3717812.50        0.52634                    484762.50
3717812.50        0.49410
         484787.50    3717812.50        0.46403                    484812.50
3717812.50        0.43646
         484837.50    3717812.50        0.41115                    484862.50
3717812.50        0.38911
         483412.50    3717837.50        0.49628                    483437.50
3717837.50        0.53113
         483462.50    3717837.50        0.57054                    483487.50
3717837.50        0.61600
         483512.50    3717837.50        0.66827                    484512.50
3717837.50        1.11592
         484537.50    3717837.50        1.01181                    484562.50
3717837.50        0.92057
         484587.50    3717837.50        0.84066                    484612.50
3717837.50        0.76814
         484637.50    3717837.50        0.70512                    484662.50
3717837.50        0.65168
         484687.50    3717837.50        0.60574                    484712.50
3717837.50        0.56553
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: GEN4 ***
INCLUDING SOURCE(S): GEN4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
484737.50	3717837.50	0.52913	484762.50	3717837.50	0.49614
484787.50	3717837.50	0.46621	484812.50	3717837.50	0.43868
484837.50	3717837.50	0.41389	484862.50	3717837.50	0.39122
483412.50	3717862.50	0.49838	483437.50	3717862.50	0.53389
483462.50	3717862.50	0.57452	483487.50	3717862.50	0.62088
483512.50	3717862.50	0.67338	484512.50	3717862.50	1.12611
484537.50	3717862.50	1.01998	484562.50	3717862.50	0.92722
484587.50	3717862.50	0.84634	484612.50	3717862.50	0.77433
484637.50	3717862.50	0.71104	484662.50	3717862.50	0.65679
484687.50	3717862.50	0.61009	484712.50	3717862.50	0.56903
484737.50	3717862.50	0.53182	484762.50	3717862.50	0.49852
484787.50	3717862.50	0.46862	484812.50	3717862.50	0.44127
484837.50	3717862.50	0.41619	484862.50	3717862.50	0.39372

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         483412.50    3717887.50        0.49952                    483437.50
3717887.50        0.53564
         483462.50    3717887.50        0.57753                    483487.50
3717887.50        0.62493
         483512.50    3717887.50        0.67812                    483537.50
3717887.50        0.73870
         484512.50    3717887.50        1.14125                    484537.50
3717887.50        1.02870
         484562.50    3717887.50        0.93464                    484587.50
3717887.50        0.85298
         484612.50    3717887.50        0.78099                    484637.50
3717887.50        0.71833
         484662.50    3717887.50        0.66308                    484687.50
3717887.50        0.61571
         484712.50    3717887.50        0.57345                    484737.50
3717887.50        0.53551
         484762.50    3717887.50        0.50172                    484787.50
3717887.50        0.47143
         484812.50    3717887.50        0.44411                    484837.50
3717887.50        0.41890
         484862.50    3717887.50        0.39614                    483412.50
3717912.50        0.49942
         483437.50    3717912.50        0.53533                    483462.50
3717912.50        0.57671
         483487.50    3717912.50        0.62143                    483512.50
3717912.50        0.67210
         483537.50    3717912.50        0.73332                    483562.50
3717912.50        0.80887
         484512.50    3717912.50        1.16037                    484537.50
3717912.50        1.04440
         484562.50    3717912.50        0.94674                    484587.50
3717912.50        0.86258
         484612.50    3717912.50        0.79025                    484637.50
3717912.50        0.72601
         484662.50    3717912.50        0.67081                    484687.50
3717912.50        0.62175
         484712.50    3717912.50        0.57862                    484737.50
3717912.50        0.54026
         484762.50    3717912.50        0.50591                    484787.50
3717912.50        0.47501
         484812.50    3717912.50        0.44724                    484837.50
3717912.50        0.42211
         484862.50    3717912.50        0.39875                    483412.50
3717937.50        0.49825
         483437.50    3717937.50        0.53386                    483462.50
3717937.50        0.57416
         483487.50    3717937.50        0.62033                    483512.50
3717937.50        0.66878
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         483537.50    3717937.50        0.72831                        483562.50
3717937.50        0.79708
         483587.50    3717937.50        0.88532                        484512.50
3717937.50        1.18309
         484537.50    3717937.50        1.06407                        484562.50
3717937.50        0.96246
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 499
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN4     ***
                                  INCLUDING SOURCE(S):     GEN4        ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - -
         484587.50    3717937.50        0.87642                        484612.50
3717937.50        0.80128
         484637.50    3717937.50        0.73609                        484662.50
3717937.50        0.67908
         484687.50    3717937.50        0.62945                        484712.50
3717937.50        0.58515
         484737.50    3717937.50        0.54584                        484762.50
3717937.50        0.51097
         484787.50    3717937.50        0.47947                        484812.50
3717937.50        0.45108
         484837.50    3717937.50        0.42551                        484862.50
3717937.50        0.40215
         483412.50    3717962.50        0.49626                        483437.50
3717962.50        0.53156
         483462.50    3717962.50        0.57124                        483487.50
3717962.50        0.61637
         483512.50    3717962.50        0.66861                        483537.50
3717962.50        0.72797
         483562.50    3717962.50        0.79665                        483587.50
3717962.50        0.87382
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```
         483612.50    3717962.50        0.96423                    484512.50
3717962.50        1.20915
         484537.50    3717962.50        1.08634                    484562.50
3717962.50        0.98149
         484587.50    3717962.50        0.89237                    484612.50
3717962.50        0.81492
         484637.50    3717962.50        0.74806                    484662.50
3717962.50        0.68932
         484687.50    3717962.50        0.63837                    484712.50
3717962.50        0.59307
         484737.50    3717962.50        0.55240                    484762.50
3717962.50        0.51651
         484787.50    3717962.50        0.48444                    484812.50
3717962.50        0.45553
         484837.50    3717962.50        0.42935                    484862.50
3717962.50        0.40558
         483412.50    3717987.50        0.49124                    483437.50
3717987.50        0.52584
         483462.50    3717987.50        0.56477                    483487.50
3717987.50        0.61103
         483512.50    3717987.50        0.66171                    483537.50
3717987.50        0.71927
         483562.50    3717987.50        0.78508                    483587.50
3717987.50        0.86099
         483612.50    3717987.50        0.95038                    484512.50
3717987.50        1.23687
         484537.50    3717987.50        1.11046                    484562.50
3717987.50        1.00305
         484587.50    3717987.50        0.91043                    484612.50
3717987.50        0.83109
         484637.50    3717987.50        0.76122                    484662.50
3717987.50        0.70118
         484687.50    3717987.50        0.64752                    484712.50
3717987.50        0.60142
         484737.50    3717987.50        0.56023                    484762.50
3717987.50        0.52320
         484787.50    3717987.50        0.49022                    484812.50
3717987.50        0.46058
         484837.50    3717987.50        0.43390                    484862.50
3717987.50        0.40976
         483412.50    3718012.50        0.47951                    483437.50
3718012.50        0.51403
         483462.50    3718012.50        0.55117                    483487.50
3718012.50        0.59639
         483512.50    3718012.50        0.65043                    483537.50
3718012.50        0.71006
         483562.50    3718012.50        0.77478                    483587.50
3718012.50        0.84972
```

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         483612.50    3718012.50        0.93847                        483637.50
3718012.50        1.03679
         484512.50    3718012.50        1.26412                        484537.50
3718012.50        1.13649
         484562.50    3718012.50        1.02607                        484587.50
3718012.50        0.93044
         484612.50    3718012.50        0.84735                        484637.50
3718012.50        0.77491
         484662.50    3718012.50        0.71263                        484687.50
3718012.50        0.65843
         484712.50    3718012.50        0.61087                        484737.50
3718012.50        0.56851
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 500
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN4     ***
                                  INCLUDING SOURCE(S):     GEN4        ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         484762.50    3718012.50        0.53068                        484787.50
3718012.50        0.49679
         484812.50    3718012.50        0.46653                        484837.50
3718012.50        0.43914
         484862.50    3718012.50        0.41449                        483412.50
3718037.50        0.46837
         483437.50    3718037.50        0.50150                        483462.50
3718037.50        0.53825
         483487.50    3718037.50        0.58229                        483512.50
3718037.50        0.63291
         483537.50    3718037.50        0.69577                        483562.50
3718037.50        0.76232
         483587.50    3718037.50        0.83561                        483612.50
3718037.50        0.91541
```

```
         483637.50    3718037.50        1.02108                    483662.50
3718037.50        1.13890
         484512.50    3718037.50        1.28885                    484537.50
3718037.50        1.15900
         484562.50    3718037.50        1.04662                    484587.50
3718037.50        0.94891
         484612.50    3718037.50        0.86348                    484637.50
3718037.50        0.78974
         484662.50    3718037.50        0.72507                    484687.50
3718037.50        0.66982
         484712.50    3718037.50        0.62028                    484737.50
3718037.50        0.57732
         484762.50    3718037.50        0.53838                    484787.50
3718037.50        0.50397
         484812.50    3718037.50        0.47283                    484837.50
3718037.50        0.44478
         484862.50    3718037.50        0.41939                    483412.50
3718062.50        0.45769
         483437.50    3718062.50        0.48979                    483462.50
3718062.50        0.52610
         483487.50    3718062.50        0.56794                    483512.50
3718062.50        0.61827
         483537.50    3718062.50        0.67754                    483562.50
3718062.50        0.74810
         483587.50    3718062.50        0.81037                    483612.50
3718062.50        0.89013
         483637.50    3718062.50        0.99728                    483662.50
3718062.50        1.11123
         484512.50    3718062.50        1.30612                    484537.50
3718062.50        1.17679
         484562.50    3718062.50        1.06388                    484587.50
3718062.50        0.96436
         484612.50    3718062.50        0.87843                    484637.50
3718062.50        0.80245
         484662.50    3718062.50        0.73693                    484687.50
3718062.50        0.67989
         483412.50    3718087.50        0.44468                    483437.50
3718087.50        0.47481
         483462.50    3718087.50        0.51166                    483487.50
3718087.50        0.55451
         483512.50    3718087.50        0.60191                    483537.50
3718087.50        0.65993
         483562.50    3718087.50        0.72293                    483587.50
3718087.50        0.78934
         483612.50    3718087.50        0.87561                    483637.50
3718087.50        0.96553
         483662.50    3718087.50        1.05796                    484512.50
3718087.50        1.31330
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         484537.50    3718087.50        1.18675                        484562.50
3718087.50        1.07592
         484587.50    3718087.50        0.97797                        484612.50
3718087.50        0.89176
         484637.50    3718087.50        0.81557                        484662.50
3718087.50        0.74839
         484687.50    3718087.50        0.69016                        483412.50
3718112.50        0.43207
         483437.50    3718112.50        0.46211                        483462.50
3718112.50        0.49989
         483487.50    3718112.50        0.54090                        483512.50
3718112.50        0.58583
         483537.50    3718112.50        0.63753                        483562.50
3718112.50        0.69501
         483587.50    3718112.50        0.77062                        483612.50
3718112.50        0.84337
         483637.50    3718112.50        0.92377                        483662.50
3718112.50        1.01436
```



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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN4      ***
                                    INCLUDING SOURCE(S):     GEN4        ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         483687.50    3718112.50        1.12164                        484512.50
3718112.50        1.31153
         484537.50    3718112.50        1.18935                        484562.50
3718112.50        1.08187
         484587.50    3718112.50        0.98603                        484612.50
3718112.50        0.90123
         484637.50    3718112.50        0.82528                        484662.50
3718112.50        0.75862
```

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         484687.50    3718112.50        0.69980                    483412.50
3718137.50        0.42544
         483437.50    3718137.50        0.45416                    483462.50
3718137.50        0.49089
         483487.50    3718137.50        0.52802                    483512.50
3718137.50        0.57011
         483537.50    3718137.50        0.61552                    483562.50
3718137.50        0.66834
         483587.50    3718137.50        0.72942                    483612.50
3718137.50        0.79944
         483637.50    3718137.50        0.87769                    483662.50
3718137.50        0.97170
         483687.50    3718137.50        1.07632                    484512.50
3718137.50        1.30046
         484537.50    3718137.50        1.18478                    484562.50
3718137.50        1.08228
         484587.50    3718137.50        0.99059                    484612.50
3718137.50        0.90742
         484637.50    3718137.50        0.83294                    484662.50
3718137.50        0.76724
         484687.50    3718137.50        0.70887                    483412.50
3718162.50        0.42090
         483437.50    3718162.50        0.44817                    483462.50
3718162.50        0.48017
         483487.50    3718162.50        0.51553                    483512.50
3718162.50        0.55575
         483537.50    3718162.50        0.60034                    483562.50
3718162.50        0.64666
         483587.50    3718162.50        0.70059                    483612.50
3718162.50        0.76458
         483637.50    3718162.50        0.84426                    483662.50
3718162.50        0.93083
         483687.50    3718162.50        1.02980                    484512.50
3718162.50        1.27863
         484537.50    3718162.50        1.17261                    484562.50
3718162.50        1.07557
         484587.50    3718162.50        0.98822                    484612.50
3718162.50        0.90894
         484637.50    3718162.50        0.83744                    484662.50
3718162.50        0.77336
         484687.50    3718162.50        0.71612                    484712.50
3718162.50        0.66451
         484737.50    3718162.50        0.61832                    484762.50
3718162.50        0.57646
         484787.50    3718162.50        0.53857                    484812.50
3718162.50        0.50454
         484837.50    3718162.50        0.47345                    484862.50
3718162.50        0.44500
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         483412.50    3718187.50        0.41353                        483437.50
3718187.50        0.43700
         483462.50    3718187.50        0.46903                        483487.50
3718187.50        0.50444
         483512.50    3718187.50        0.54283                        483537.50
3718187.50        0.58814
         483562.50    3718187.50        0.63162                        484512.50
3718187.50        1.24734
         484537.50    3718187.50        1.15075                        484562.50
3718187.50        1.06226
         484587.50    3718187.50        0.98103                        484612.50
3718187.50        0.90600
         484637.50    3718187.50        0.83792                        484662.50
3718187.50        0.77591
         484687.50    3718187.50        0.72017                        484712.50
3718187.50        0.66978
         484737.50    3718187.50        0.62390                        484762.50
3718187.50        0.58237
         484787.50    3718187.50        0.54473                        484812.50
3718187.50        0.51045
         484837.50    3718187.50        0.47917                        484862.50
3718187.50        0.45138
         484162.50    3718212.50        2.19467                        484187.50
3718212.50        2.20794
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 502
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN4     ***
                                  INCLUDING SOURCE(S):     GEN4        ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                            ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
         484212.50    3718212.50        2.20810                        484512.50
3718212.50        1.20797
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        484537.50    3718212.50        1.12236                    484562.50
3718212.50        1.04221
        484587.50    3718212.50        0.96714                    484612.50
3718212.50        0.89769
        484637.50    3718212.50        0.83343                    484662.50
3718212.50        0.77462
        484687.50    3718212.50        0.72103                    484712.50
3718212.50        0.67204
        484737.50    3718212.50        0.62746                    484762.50
3718212.50        0.58665
        484787.50    3718212.50        0.54927                    484812.50
3718212.50        0.51511
        484837.50    3718212.50        0.48507                    484862.50
3718212.50        0.45737
        484512.50    3718237.50        1.16234                    484537.50
3718237.50        1.08729
        484562.50    3718237.50        1.01584                    484587.50
3718237.50        0.94794
        484612.50    3718237.50        0.88439                    484637.50
3718237.50        0.82445
        484662.50    3718237.50        0.76928                    484687.50
3718237.50        0.71835
        484712.50    3718237.50        0.67146                    484737.50
3718237.50        0.62849
        484762.50    3718237.50        0.58871                    484787.50
3718237.50        0.55225
        484812.50    3718237.50        0.51902                    484837.50
3718237.50        0.48905
        484862.50    3718237.50        0.46124                    483412.50
3718262.50        0.38260
        483437.50    3718262.50        0.40537                    484137.50
3718262.50        1.62135
        484162.50    3718262.50        1.64173                    484212.50
3718262.50        1.66563
        484512.50    3718262.50        1.11133                    484537.50
3718262.50        1.04705
        484562.50    3718262.50        0.98426                    484587.50
3718262.50        0.92377
        484612.50    3718262.50        0.86598                    484637.50
3718262.50        0.81136
        484662.50    3718262.50        0.76003                    484687.50
3718262.50        0.71183
        484712.50    3718262.50        0.66776                    484737.50
3718262.50        0.62683
        484762.50    3718262.50        0.58883                    484787.50
3718262.50        0.55335
        484812.50    3718262.50        0.52118                    484837.50
3718262.50        0.49151
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         484862.50    3718262.50        0.46412                        483412.50
3718287.50        0.37825
         483437.50    3718287.50        0.39904                        484212.50
3718287.50        1.45802
         484512.50    3718287.50        1.05673                        484537.50
3718287.50        1.00247
         484562.50    3718287.50        0.94801                        484587.50
3718287.50        0.89490
         484612.50    3718287.50        0.84346                        484637.50
3718287.50        0.79415
         484662.50    3718287.50        0.74719                        484687.50
3718287.50        0.70223
         484712.50    3718287.50        0.66074                        484737.50
3718287.50        0.62219
         484762.50    3718287.50        0.58612                        484787.50
3718287.50        0.55246
         484812.50    3718287.50        0.52109                        484837.50
3718287.50        0.49221
         484862.50    3718287.50        0.46556                        483412.50
3718312.50        0.36902
         483437.50    3718312.50        0.38834                        484187.50
3718312.50        1.27884
         483412.50    3718337.50        0.36296                        483437.50
3718337.50        0.38367
         484187.50    3718337.50        1.13603                        483412.50
3718412.50        0.34258
         483437.50    3718412.50        0.36690                        483412.50
3718437.50        0.33486
         483437.50    3718437.50        0.35834                        484462.50
3718462.50        0.70523
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 503
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN4     ***
                                  INCLUDING SOURCE(S):     GEN4        ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                            ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **
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X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
484487.50	3718462.50	0.69622	484462.50	3718487.50	0.65493
484487.50	3718487.50	0.64864			

↟ *** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCKS ***
INCLUDING SOURCE(S): L0000075 , L0000076 , L0000077 , L0000078 , L0000079 ,
L0000080 , L0000081 , L0000082 , L0000083 , L0000084 , L0000085 , L0000086 , L0000087 ,
L0000088 , L0000089 , L0000090 , L0000091 , L0000092 , L0000093 , L0000094 , L0000095 ,
L0000096 , L0000097 , L0000098 , L0000099 , L0000100 , L0000101 , L0000102 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
481950.00	3715450.00	0.05578	482050.00	3715450.00	0.05709
482150.00	3715450.00	0.05801	482250.00	3715450.00	0.05997
482350.00	3715450.00	0.06168	482450.00	3715450.00	0.06267
482550.00	3715450.00	0.06411	482650.00	3715450.00	0.06584
482750.00	3715450.00	0.06778	482850.00	3715450.00	0.06988
482950.00	3715450.00	0.07153	483050.00		

```
3715450.00        0.07349
         483150.00    3715450.00        0.07516                   483250.00
3715450.00        0.07654
         483350.00    3715450.00        0.07796                   483450.00
3715450.00        0.07918
         483550.00    3715450.00        0.08041                   483650.00
3715450.00        0.08101
         483750.00    3715450.00        0.08231                   483850.00
3715450.00        0.08349
         483950.00    3715450.00        0.08422                   484050.00
3715450.00        0.08459
         484150.00    3715450.00        0.08455                   484250.00
3715450.00        0.08479
         484350.00    3715450.00        0.08544                   484450.00
3715450.00        0.08572
         481950.00    3715550.00        0.05735                   482050.00
3715550.00        0.05893
         482150.00    3715550.00        0.06001                   482250.00
3715550.00        0.06191
         482350.00    3715550.00        0.06320                   482550.00
3715550.00        0.06664
         482650.00    3715550.00        0.06851                   482750.00
3715550.00        0.07030
         482850.00    3715550.00        0.07224                   482950.00
3715550.00        0.07454
         483050.00    3715550.00        0.07687                   483150.00
3715550.00        0.07883
         483250.00    3715550.00        0.08054                   483350.00
3715550.00        0.08197
         483450.00    3715550.00        0.08328                   483550.00
3715550.00        0.08467
         483650.00    3715550.00        0.08582                   483750.00
3715550.00        0.08677
         483850.00    3715550.00        0.08845                   483950.00
3715550.00        0.08931
         484050.00    3715550.00        0.08994                   484250.00
3715550.00        0.09010
         484350.00    3715550.00        0.08979                   484450.00
3715550.00        0.08996
         484550.00    3715550.00        0.09051                   484950.00
3715550.00        0.09727
         485050.00    3715550.00        0.09615                   481950.00
3715650.00        0.05908
         482050.00    3715650.00        0.06072                   482150.00
3715650.00        0.06248
         482250.00    3715650.00        0.06391                   482350.00
3715650.00        0.06533
         482450.00    3715650.00        0.06736                   482650.00
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3715650.00 0.07135
482750.00 3715650.00 0.07374 482850.00
3715650.00 0.07568
482950.00 3715650.00 0.07737 483050.00
3715650.00 0.07995
483150.00 3715650.00 0.08263 483250.00
3715650.00 0.08493
483350.00 3715650.00 0.08673 483450.00
3715650.00 0.08814
483550.00 3715650.00 0.08980 483650.00
3715650.00 0.09055
483750.00 3715650.00 0.09254 483850.00
3715650.00 0.09289
483950.00 3715650.00 0.09486 484050.00
3715650.00 0.09472
484150.00 3715650.00 0.09497 484350.00
3715650.00 0.09606
484450.00 3715650.00 0.09508 484550.00
3715650.00 0.09530
484650.00 3715650.00 0.09512 484750.00
3715650.00 0.09511

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCKS ***
INCLUDING SOURCE(S): L0000075 , L0000076 , L0000077 , L0000078 , L0000079 ,
L0000080 , L0000081 , L0000082 , L0000083 , L0000084 , L0000085 , L0000086 , L0000087 ,
L0000088 , L0000089 , L0000090 , L0000091 , L0000092 , L0000093 , L0000094 , L0000095 ,
L0000096 , L0000097 , L0000098 , L0000099 , L0000100 , L0000101 , L0000102 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC

- - - -

```
         483550.00    3715850.00        0.10143                        483650.00
3715850.00        0.10310
         483750.00    3715850.00        0.10557                        483850.00
3715850.00        0.10680
         483950.00    3715850.00        0.10738                        484050.00
3715850.00        0.10900
         484150.00    3715850.00        0.10886                        484250.00
3715850.00        0.10833
         484550.00    3715850.00        0.10770                        484650.00
3715850.00        0.10635
         484750.00    3715850.00        0.10523                        484850.00
3715850.00        0.10398
         485150.00    3715850.00        0.09998                        485250.00
3715850.00        0.09965
         481950.00    3715950.00        0.06467                        482050.00
3715950.00        0.06643
         482150.00    3715950.00        0.06873                        482250.00
3715950.00        0.07137
         482350.00    3715950.00        0.07369                        482450.00
3715950.00        0.07607
         482550.00    3715950.00        0.07895                        482650.00
3715950.00        0.08149
         482750.00    3715950.00        0.08421                        482850.00
3715950.00        0.08745
         482950.00    3715950.00        0.09111                        483050.00
3715950.00        0.09429
         483350.00    3715950.00        0.10333                        483450.00
3715950.00        0.10627
         483550.00    3715950.00        0.10822                        483650.00
3715950.00        0.11043
         483750.00    3715950.00        0.11232                        483850.00
3715950.00        0.11512
         483950.00    3715950.00        0.11519                        484050.00
3715950.00        0.11697
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 506
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TRUCKS   ***
                                  INCLUDING SOURCE(S):     L0000075    , L0000076
, L0000077    , L0000078    , L0000079    ,
                  L0000080    , L0000081    , L0000082    , L0000083    , L0000084
, L0000085    , L0000086    , L0000087    ,
```

L0000088 , L0000089 , L0000090 , L0000091 , L0000092
, L0000093 , L0000094 , L0000095 ,
L0000096 , L0000097 , L0000098 , L0000099 , L0000100
, L0000101 , L0000102 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
484150.00	3715950.00	0.11765	484250.00	3715950.00	0.11696
484850.00	3715950.00	0.11060	485150.00	3715950.00	0.10587
485250.00	3715950.00	0.10591	481950.00	3716050.00	0.06667
482050.00	3716050.00	0.06877	482150.00	3716050.00	0.07128
482250.00	3716050.00	0.07398	482350.00	3716050.00	0.07655
482450.00	3716050.00	0.07933	482550.00	3716050.00	0.08242
482650.00	3716050.00	0.08547	482750.00	3716050.00	0.08828
482850.00	3716050.00	0.09223	482950.00	3716050.00	0.09570
483050.00	3716050.00	0.09940	483150.00	3716050.00	0.10270
483350.00	3716050.00	0.11011	483450.00	3716050.00	0.11367
483550.00	3716050.00	0.11635	483650.00	3716050.00	0.11842
483750.00	3716050.00	0.12172	483850.00	3716050.00	0.12405
483950.00	3716050.00	0.12525	484050.00	3716050.00	0.12597
484150.00	3716050.00	0.12739	484250.00	3716050.00	0.12646
484450.00	3716050.00	0.12421	484750.00	3716050.00	0.12012
484850.00	3716050.00	0.11810	485050.00	3716050.00	0.11399
485150.00	3716050.00	0.11218	485250.00		

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3716050.00        0.11132
         485350.00    3716050.00        0.10768                    485450.00
3716050.00        0.10588
         481950.00    3716150.00        0.06879                    482050.00
3716150.00        0.07133
         482150.00    3716150.00        0.07394                    482250.00
3716150.00        0.07679
         482350.00    3716150.00        0.07982                    482450.00
3716150.00        0.08279
         482550.00    3716150.00        0.08598                    482650.00
3716150.00        0.08952
         482750.00    3716150.00        0.09308                    482850.00
3716150.00        0.09676
         482950.00    3716150.00        0.10116                    483050.00
3716150.00        0.10547
         483150.00    3716150.00        0.10920                    483450.00
3716150.00        0.12204
         483550.00    3716150.00        0.12558                    483650.00
3716150.00        0.12822
         483750.00    3716150.00        0.13190                    483850.00
3716150.00        0.13447
         483950.00    3716150.00        0.13650                    484150.00
3716150.00        0.13845
         484250.00    3716150.00        0.13776                    484350.00
3716150.00        0.13711
         484450.00    3716150.00        0.13522                    484850.00
3716150.00        0.12670
         484950.00    3716150.00        0.12409                    485150.00
3716150.00        0.11882
         485250.00    3716150.00        0.11590                    485350.00
3716150.00        0.11313
         485450.00    3716150.00        0.11042                    481950.00
3716250.00        0.07088
         482050.00    3716250.00        0.07388                    482150.00
3716250.00        0.07688
         482250.00    3716250.00        0.07987                    482350.00
3716250.00        0.08299
         482450.00    3716250.00        0.08641                    482550.00
3716250.00        0.09002
         482650.00    3716250.00        0.09385                    482750.00
3716250.00        0.09794
         482850.00    3716250.00        0.10246                    482950.00
3716250.00        0.10711
         483050.00    3716250.00        0.11179                    483150.00
3716250.00        0.11671
         483450.00    3716250.00        0.13127                    483550.00
3716250.00        0.13590
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCKS ***
INCLUDING SOURCE(S): L0000075 , L0000076 , L0000077 , L0000078 , L0000079 , L0000080 , L0000081 , L0000082 , L0000083 , L0000084 , L0000085 , L0000086 , L0000087 , L0000088 , L0000089 , L0000090 , L0000091 , L0000092 , L0000093 , L0000094 , L0000095 , L0000096 , L0000097 , L0000098 , L0000099 , L0000100 , L0000101 , L0000102 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
483650.00	3716250.00	0.13979	483750.00	3716250.00	0.14361
483850.00	3716250.00	0.14676	483950.00	3716250.00	0.14885
484150.00	3716250.00	0.15315	484850.00	3716250.00	0.13729
484950.00	3716250.00	0.13430	485050.00	3716250.00	0.12970
485150.00	3716250.00	0.12631	485250.00	3716250.00	0.12301
485350.00	3716250.00	0.11968	481950.00	3716350.00	0.07323
482050.00	3716350.00	0.07655	482150.00	3716350.00	0.07982
482250.00	3716350.00	0.08363	482350.00	3716350.00	0.08676
482450.00	3716350.00	0.09032	482550.00	3716350.00	0.09433
482650.00	3716350.00	0.09868	482750.00	3716350.00	0.10338

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         482850.00    3716350.00        0.10816                    482950.00
3716350.00        0.11366
         483050.00    3716350.00        0.11921                    483150.00
3716350.00        0.12498
         483450.00    3716350.00        0.14245                    483550.00
3716350.00        0.14798
         483650.00    3716350.00        0.15287                    483750.00
3716350.00        0.15769
         483850.00    3716350.00        0.16162                    483950.00
3716350.00        0.16426
         484850.00    3716350.00        0.14836                    484950.00
3716350.00        0.14571
         481950.00    3716450.00        0.07580                    482550.00
3716450.00        0.09918
         482650.00    3716450.00        0.10401                    482750.00
3716450.00        0.10919
         482850.00    3716450.00        0.11426                    482950.00
3716450.00        0.12106
         483050.00    3716450.00        0.12793                    483150.00
3716450.00        0.13454
         483450.00    3716450.00        0.15575                    483550.00
3716450.00        0.16245
         483650.00    3716450.00        0.16849                    483750.00
3716450.00        0.17407
         483850.00    3716450.00        0.17934                    483950.00
3716450.00        0.18284
         484050.00    3716450.00        0.18502                    485150.00
3716450.00        0.14609
         482650.00    3716550.00        0.11035                    482750.00
3716550.00        0.11577
         482850.00    3716550.00        0.12149                    482950.00
3716550.00        0.12993
         483450.00    3716550.00        0.17106                    483550.00
3716550.00        0.18006
         483650.00    3716550.00        0.18742                    483750.00
3716550.00        0.19534
         483850.00    3716550.00        0.20157                    483950.00
3716550.00        0.20637
         484050.00    3716550.00        0.20891                    484950.00
3716550.00        0.16866
         485050.00    3716550.00        0.16429                    485150.00
3716550.00        0.15844
         482850.00    3716650.00        0.12928                    482950.00
3716650.00        0.13835
         483450.00    3716650.00        0.18784                    483550.00
3716650.00        0.20007
         483650.00    3716650.00        0.21139                    483750.00
3716650.00        0.22206
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         483850.00    3716650.00        0.22921                        483950.00
3716650.00        0.23599
         484050.00    3716650.00        0.23940                        485250.00
3716650.00        0.15707
         481950.00    3716750.00        0.08113                        482650.00
3716750.00        0.12299
         482750.00    3716750.00        0.13083                        482850.00
3716750.00        0.13776
         482950.00    3716750.00        0.14842                        483050.00
3716750.00        0.15899
         483150.00    3716750.00        0.17185                        483450.00
3716750.00        0.20956
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                       ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 508
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TRUCKS   ***
                                  INCLUDING SOURCE(S):     L0000075    , L0000076
, L0000077    , L0000078    , L0000079    ,
                  L0000080    , L0000081    , L0000082    , L0000083    , L0000084
, L0000085    , L0000086    , L0000087    ,
                  L0000088    , L0000089    , L0000090    , L0000091    , L0000092
, L0000093    , L0000094    , L0000095    ,
                  L0000096    , L0000097    , L0000098    , L0000099    , L0000100
, L0000101    , L0000102    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         483550.00    3716750.00        0.22564                        483650.00
3716750.00        0.24355
         483750.00    3716750.00        0.25705                        483850.00
3716750.00        0.26513
         483950.00    3716750.00        0.27361                        484050.00
3716750.00        0.27824
         485150.00    3716750.00        0.17685                        485250.00
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3716750.00        0.16532
         485350.00    3716750.00        0.15473                    485450.00
3716750.00        0.14446
         485550.00    3716750.00        0.13600                    485650.00
3716750.00        0.12591
         481950.00    3716850.00        0.08315                    482050.00
3716850.00        0.08757
         482150.00    3716850.00        0.09233                    482650.00
3716850.00        0.12934
         482750.00    3716850.00        0.13799                    482850.00
3716850.00        0.14744
         482950.00    3716850.00        0.15971                    483050.00
3716850.00        0.17377
         483150.00    3716850.00        0.18696                    483250.00
3716850.00        0.20069
         484050.00    3716850.00        0.33468                    485550.00
3716850.00        0.13936
         485650.00    3716850.00        0.12876                    481950.00
3716950.00        0.08498
         482050.00    3716950.00        0.08946                    482150.00
3716950.00        0.09481
         482250.00    3716950.00        0.10078                    482350.00
3716950.00        0.10739
         482450.00    3716950.00        0.11491                    483150.00
3716950.00        0.20323
         483250.00    3716950.00        0.22151                    485550.00
3716950.00        0.14166
         485650.00    3716950.00        0.13108                    481950.00
3717050.00        0.08672
         482050.00    3717050.00        0.09155                    482150.00
3717050.00        0.09723
         482250.00    3717050.00        0.10368                    482350.00
3717050.00        0.11057
         482450.00    3717050.00        0.11848                    482550.00
3717050.00        0.12733
         482650.00    3717050.00        0.13770                    482850.00
3717050.00        0.16392
         482950.00    3717050.00        0.18190                    483250.00
3717050.00        0.24749
         485350.00    3717050.00        0.17153                    485450.00
3717050.00        0.15773
         485550.00    3717050.00        0.14429                    485650.00
3717050.00        0.13298
         486250.00    3717050.00        0.08205                    481950.00
3717150.00        0.08793
         482050.00    3717150.00        0.09361                    482150.00
3717150.00        0.09991
         482250.00    3717150.00        0.10593                    482350.00
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3717150.00        0.11339
         482450.00    3717150.00        0.12217                        482550.00
3717150.00        0.13125
         482650.00    3717150.00        0.14306                        482750.00
3717150.00        0.15630
         482850.00    3717150.00        0.17124                        482950.00
3717150.00        0.18999
         483050.00    3717150.00        0.21393                        485350.00
3717150.00        0.17616
         485450.00    3717150.00        0.16016                        485550.00
3717150.00        0.14574
         485650.00    3717150.00        0.13414                        481950.00
3717250.00        0.08965
         482050.00    3717250.00        0.09500                        482150.00
3717250.00        0.10124
         482250.00    3717250.00        0.10903                        482350.00
3717250.00        0.11703
         482450.00    3717250.00        0.12518                        482550.00
3717250.00        0.13541
         482650.00    3717250.00        0.14777                        482750.00
3717250.00        0.16276
         482850.00    3717250.00        0.17946                        482950.00
3717250.00        0.19920
         483050.00    3717250.00        0.22514                        483150.00
3717250.00        0.25786
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                   PAGE 509
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TRUCKS   ***
                                    INCLUDING SOURCE(S):     L0000075    , L0000076
, L0000077    , L0000078    , L0000079    ,
                  L0000080    , L0000081    , L0000082    , L0000083    , L0000084
, L0000085    , L0000086    , L0000087    ,
                  L0000088    , L0000089    , L0000090    , L0000091    , L0000092
, L0000093    , L0000094    , L0000095    ,
                  L0000096    , L0000097    , L0000098    , L0000099    , L0000100
, L0000101    , L0000102    ,  . . .      ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                            ** CONC OF PM_10    IN MICROGRAMS/M**3
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**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
483250.00	3717250.00	0.29770	483350.00	3717250.00	0.34718
483450.00	3717250.00	0.40775	483850.00	3717250.00	0.80835
483950.00	3717250.00	0.90623	486150.00	3717250.00	0.09755
486250.00	3717250.00	0.09243	481950.00	3717350.00	0.09113
482050.00	3717350.00	0.09657	482150.00	3717350.00	0.10274
482250.00	3717350.00	0.11038	482350.00	3717350.00	0.11888
482450.00	3717350.00	0.12841	482550.00	3717350.00	0.13901
482650.00	3717350.00	0.15236	482750.00	3717350.00	0.16840
482850.00	3717350.00	0.18672	482950.00	3717350.00	0.20854
483050.00	3717350.00	0.23744	483150.00	3717350.00	0.27436
483250.00	3717350.00	0.32186	483350.00	3717350.00	0.38442
483450.00	3717350.00	0.46619	483850.00	3717350.00	1.17713
483950.00	3717350.00	1.38416	484050.00	3717350.00	1.46279
484650.00	3717350.00	0.53054	484750.00	3717350.00	0.43570
486050.00	3717350.00	0.10254	486150.00	3717350.00	0.09684
486250.00	3717350.00	0.09169	481950.00	3717450.00	0.09255
482050.00	3717450.00	0.09823	482150.00	3717450.00	0.10432
482250.00	3717450.00	0.11234	482350.00	3717450.00	0.12064
482450.00	3717450.00	0.13055	482750.00	3717450.00	0.17365
482850.00	3717450.00	0.19319	482950.00	3717450.00	0.21715
483050.00	3717450.00	0.24848	483150.00	3717450.00	0.28984

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         483250.00    3717450.00        0.34554                        483350.00
3717450.00        0.42206
         483450.00    3717450.00        0.53077                        483550.00
3717450.00        0.69071
         483850.00    3717450.00        1.84483                        483950.00
3717450.00        2.45345
         484050.00    3717450.00        2.63262                        484550.00
3717450.00        0.74781
         484650.00    3717450.00        0.58085                        484750.00
3717450.00        0.46486
         481950.00    3717550.00        0.09396                        482050.00
3717550.00        0.09993
         482150.00    3717550.00        0.10662                        482250.00
3717550.00        0.11393
         482350.00    3717550.00        0.12279                        482450.00
3717550.00        0.13298
         482750.00    3717550.00        0.17725                        482850.00
3717550.00        0.19799
         482950.00    3717550.00        0.22352                        483050.00
3717550.00        0.25772
         483250.00    3717550.00        0.36640                        483350.00
3717550.00        0.45580
         483450.00    3717550.00        0.59291                        483550.00
3717550.00        0.80755
         483950.00    3717550.00        6.05999                        484050.00
3717550.00        6.56655
         485850.00    3717550.00        0.11787                        485950.00
3717550.00        0.11003
         481950.00    3717650.00        0.09161                        482050.00
3717650.00        0.10061
         482150.00    3717650.00        0.10758                        482250.00
3717650.00        0.11533
         482350.00    3717650.00        0.12438                        482450.00
3717650.00        0.13469
         482550.00    3717650.00        0.14729                        482650.00
3717650.00        0.16172
         482750.00    3717650.00        0.17981                        482850.00
3717650.00        0.20135
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 510
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TRUCKS   ***
```

INCLUDING SOURCE(S): L0000075 , L0000076 , L0000077 , L0000078 , L0000079 , L0000080 , L0000081 , L0000082 , L0000083 , L0000084 , L0000085 , L0000086 , L0000087 , L0000088 , L0000089 , L0000090 , L0000091 , L0000092 , L0000093 , L0000094 , L0000095 , L0000096 , L0000097 , L0000098 , L0000099 , L0000100 , L0000101 , L0000102 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
482950.00	3717650.00	0.22882	483350.00	3717650.00	0.48160
484550.00	3717650.00	0.89076	484650.00	3717650.00	0.65203
484750.00	3717650.00	0.50219	484850.00	3717650.00	0.40178
485150.00	3717650.00	0.24241	485450.00	3717650.00	0.16711
485550.00	3717650.00	0.15205	482250.00	3717750.00	0.11563
482350.00	3717750.00	0.12109	482450.00	3717750.00	0.13079
482550.00	3717750.00	0.14383	482650.00	3717750.00	0.16041
482750.00	3717750.00	0.18128	482850.00	3717750.00	0.20331
482950.00	3717750.00	0.23191	484550.00	3717750.00	0.94282
484650.00	3717750.00	0.67767	484750.00	3717750.00	0.51653
484850.00	3717750.00	0.41049	485150.00	3717750.00	0.24434
485450.00	3717750.00	0.16790	485550.00	3717750.00	0.15258
485650.00	3717750.00	0.13983	485750.00	3717750.00	0.12832
485850.00	3717750.00	0.11863	485950.00	3717750.00	0.11047
486050.00	3717750.00	0.10343	482250.00		

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3717850.00        0.11177
         482650.00    3717850.00        0.15564                    482750.00
3717850.00        0.17766
         482850.00    3717850.00        0.20366                    482950.00
3717850.00        0.23155
         483350.00    3717850.00        0.49391                    483450.00
3717850.00        0.65879
         484550.00    3717850.00        0.99639                    484650.00
3717850.00        0.70836
         484750.00    3717850.00        0.53506                    484850.00
3717850.00        0.42226
         484950.00    3717850.00        0.34468                    485150.00
3717850.00        0.24741
         485250.00    3717850.00        0.21534                    485450.00
3717850.00        0.17063
         485550.00    3717850.00        0.15463                    485650.00
3717850.00        0.14110
         485750.00    3717850.00        0.12925                    485850.00
3717850.00        0.11981
         485950.00    3717850.00        0.11182                    486050.00
3717850.00        0.10424
         481950.00    3717950.00        0.07856                    482250.00
3717950.00        0.10820
         482350.00    3717950.00        0.10817                    482750.00
3717950.00        0.17059
         483350.00    3717950.00        0.47926                    483450.00
3717950.00        0.63181
         483550.00    3717950.00        0.88250                    484550.00
3717950.00        1.04001
         484650.00    3717950.00        0.74039                    484750.00
3717950.00        0.55691
         484850.00    3717950.00        0.43748                    484950.00
3717950.00        0.35529
         485350.00    3717950.00        0.19363                    485450.00
3717950.00        0.17249
         485550.00    3717950.00        0.15675                    485650.00
3717950.00        0.14212
         485750.00    3717950.00        0.13021                    485850.00
3717950.00        0.12092
         485950.00    3717950.00        0.11284                    486050.00
3717950.00        0.10534
         481950.00    3718050.00        0.07849                    482050.00
3718050.00        0.08135
         482750.00    3718050.00        0.16702                    482850.00
3718050.00        0.19234
         482950.00    3718050.00        0.21540                    483050.00
3718050.00        0.25150
         483150.00    3718050.00        0.29462                    483250.00
```

3718050.00 0.35446
483350.00 3718050.00 0.44780 483450.00
3718050.00 0.58279
*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCKS ***
INCLUDING SOURCE(S): L0000075 , L0000076 , L0000077 , L0000078 , L0000079 ,
L0000080 , L0000081 , L0000082 , L0000083 , L0000084 , L0000085 , L0000086 , L0000087 ,
L0000088 , L0000089 , L0000090 , L0000091 , L0000092 , L0000093 , L0000094 , L0000095 ,
L0000096 , L0000097 , L0000098 , L0000099 , L0000100 , L0000101 , L0000102 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
483550.00	3718050.00	0.80382	483650.00	3718050.00	1.17138
484550.00	3718050.00	1.03934	484650.00	3718050.00	0.75727
485450.00	3718050.00	0.17595	485550.00	3718050.00	0.15834
485650.00	3718050.00	0.14342	485750.00	3718050.00	0.13118
485850.00	3718050.00	0.12129	485950.00	3718050.00	0.11297
486050.00	3718050.00	0.10558	481950.00	3718150.00	0.08083
482050.00	3718150.00	0.08213	482150.00	3718150.00	0.08532
482250.00	3718150.00	0.09250	482350.00	3718150.00	0.10131

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         482650.00    3718150.00        0.14321                    482750.00
3718150.00        0.16270
         482850.00    3718150.00        0.17190                    482950.00
3718150.00        0.19350
         483050.00    3718150.00        0.22453                    483150.00
3718150.00        0.27083
         483350.00    3718150.00        0.41470                    483450.00
3718150.00        0.53055
         483550.00    3718150.00        0.70200                    483650.00
3718150.00        0.95692
         484550.00    3718150.00        0.96867                    484650.00
3718150.00        0.73995
         485250.00    3718150.00        0.22848                    485550.00
3718150.00        0.16013
         485650.00    3718150.00        0.14516                    485750.00
3718150.00        0.13272
         481950.00    3718250.00        0.08212                    482050.00
3718250.00        0.08405
         482150.00    3718250.00        0.08597                    482250.00
3718250.00        0.08987
         482350.00    3718250.00        0.10021                    482450.00
3718250.00        0.11221
         482550.00    3718250.00        0.12333                    482650.00
3718250.00        0.13925
         482750.00    3718250.00        0.15374                    482850.00
3718250.00        0.15066
         482950.00    3718250.00        0.16476                    483250.00
3718250.00        0.29412
         484550.00    3718250.00        0.84094                    484650.00
3718250.00        0.68370
         484750.00    3718250.00        0.55548                    484850.00
3718250.00        0.45486
         485150.00    3718250.00        0.26961                    485250.00
3718250.00        0.23318
         485650.00    3718250.00        0.14771                    481950.00
3718350.00        0.07770
         482050.00    3718350.00        0.08236                    482150.00
3718350.00        0.08478
         482250.00    3718350.00        0.08751                    482350.00
3718350.00        0.09705
         482450.00    3718350.00        0.10955                    482550.00
3718350.00        0.11976
         482650.00    3718350.00        0.13212                    482750.00
3718350.00        0.14601
         483150.00    3718350.00        0.20831                    483450.00
3718350.00        0.42913
         485250.00    3718350.00        0.23592                    485350.00
3718350.00        0.20752
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         485550.00    3718350.00        0.16471                        485650.00
3718350.00        0.15058
         486150.00    3718350.00        0.10028                        486250.00
3718350.00        0.09421
         481950.00    3718450.00        0.07507                        482050.00
3718450.00        0.08022
         482150.00    3718450.00        0.08270                        482250.00
3718450.00        0.08572
         482350.00    3718450.00        0.09338                        482450.00
3718450.00        0.10422
         482550.00    3718450.00        0.11568                        482650.00
3718450.00        0.12697
         482750.00    3718450.00        0.14012                        482850.00
3718450.00        0.14824
         483350.00    3718450.00        0.31161                        484450.00
3718450.00        0.60265
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 512
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TRUCKS   ***
                                    INCLUDING SOURCE(S):     L0000075    , L0000076
, L0000077    , L0000078    , L0000079    ,
                   L0000080    , L0000081    , L0000082    , L0000083    , L0000084
, L0000085    , L0000086    , L0000087    ,
                   L0000088    , L0000089    , L0000090    , L0000091    , L0000092
, L0000093    , L0000094    , L0000095    ,
                   L0000096    , L0000097    , L0000098    , L0000099    , L0000100
, L0000101    , L0000102    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - -
         485150.00    3718450.00        0.26870                        485250.00
3718450.00        0.23563
         485350.00    3718450.00        0.20907                        485750.00
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3718450.00        0.13814
         485850.00    3718450.00        0.12612                   485950.00
3718450.00        0.11616
         486050.00    3718450.00        0.10854                   481950.00
3718550.00        0.07219
         482050.00    3718550.00        0.07670                   482150.00
3718550.00        0.08177
         482250.00    3718550.00        0.08609                   482350.00
3718550.00        0.09194
         482450.00    3718550.00        0.10180                   482550.00
3718550.00        0.11125
         482650.00    3718550.00        0.12093                   482750.00
3718550.00        0.13686
         482850.00    3718550.00        0.14886                   482950.00
3718550.00        0.16079
         483550.00    3718550.00        0.35007                   484650.00
3718550.00        0.43096
         484750.00    3718550.00        0.39856                   484850.00
3718550.00        0.36300
         485850.00    3718550.00        0.12782                   485950.00
3718550.00        0.11827
         482050.00    3718650.00        0.07390                   482150.00
3718650.00        0.07932
         482250.00    3718650.00        0.08559                   482350.00
3718650.00        0.09285
         482450.00    3718650.00        0.09931                   482550.00
3718650.00        0.10791
         482650.00    3718650.00        0.11951                   482750.00
3718650.00        0.13267
         482850.00    3718650.00        0.14859                   482950.00
3718650.00        0.16603
         485150.00    3718650.00        0.24745                   485450.00
3718650.00        0.18499
         485550.00    3718650.00        0.16781                   485650.00
3718650.00        0.15244
         485850.00    3718650.00        0.13004                   485950.00
3718650.00        0.11906
         486050.00    3718650.00        0.11141                   482050.00
3718750.00        0.07266
         482150.00    3718750.00        0.07805                   482250.00
3718750.00        0.08294
         482350.00    3718750.00        0.08996                   482450.00
3718750.00        0.09797
         482550.00    3718750.00        0.10709                   482650.00
3718750.00        0.11738
         482750.00    3718750.00        0.13112                   482850.00
3718750.00        0.14650
         482950.00    3718750.00        0.16142                   483050.00
```

3718750.00 0.17889
484950.00 3718750.00 0.26833 485050.00
3718750.00 0.25123
485150.00 3718750.00 0.23340 485850.00
3718750.00 0.13084
485950.00 3718750.00 0.12062 486050.00
3718750.00 0.11203
482350.00 3718850.00 0.08880 482450.00
3718850.00 0.09684
482550.00 3718850.00 0.10572 482650.00
3718850.00 0.11620
482750.00 3718850.00 0.12919 482850.00
3718850.00 0.14287
482950.00 3718850.00 0.15535 483050.00
3718850.00 0.16992
483150.00 3718850.00 0.17935 484150.00
3718850.00 0.25955
484250.00 3718850.00 0.26882 485350.00
3718850.00 0.18832
485450.00 3718850.00 0.17462 485750.00
3718850.00 0.13978
485850.00 3718850.00 0.12981 485950.00
3718850.00 0.12132
486050.00 3718850.00 0.11233 482450.00
3718950.00 0.09596
482550.00 3718950.00 0.10525 482650.00
3718950.00 0.11465
482750.00 3718950.00 0.12625 482850.00
3718950.00 0.13725

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCKS ***
INCLUDING SOURCE(S): L0000075 , L0000076 , L0000077 , L0000078 , L0000079 ,
L0000080 , L0000081 , L0000082 , L0000083 , L0000084 , L0000085 , L0000086 , L0000087 ,
L0000088 , L0000089 , L0000090 , L0000091 , L0000092 , L0000093 , L0000094 , L0000095 ,
L0000096 , L0000097 , L0000098 , L0000099 , L0000100 , L0000101 , L0000102 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
482950.00	3718950.00	0.14843	483050.00	3718950.00	0.15900
483150.00	3718950.00	0.16953	483250.00	3718950.00	0.17461
485750.00	3718950.00	0.13883	485850.00	3718950.00	0.12928
485950.00	3718950.00	0.12020	486050.00	3718950.00	0.11284
482250.00	3719050.00	0.08031	482350.00	3719050.00	0.08773
482450.00	3719050.00	0.09552	482550.00	3719050.00	0.10387
482650.00	3719050.00	0.11307	482850.00	3719050.00	0.13115
482950.00	3719050.00	0.13984	483050.00	3719050.00	0.14880
483150.00	3719050.00	0.15592	483250.00	3719050.00	0.16046
483350.00	3719050.00	0.16195	483450.00	3719050.00	0.16321
483550.00	3719050.00	0.16391	485250.00	3719050.00	0.17456
485450.00	3719050.00	0.15862	485550.00	3719050.00	0.15014
485650.00	3719050.00	0.14240	485750.00	3719050.00	0.13493
482350.00	3719150.00	0.08784	482650.00	3719150.00	0.10970
482850.00	3719150.00	0.12535	483050.00	3719150.00	0.13901
483150.00	3719150.00	0.14343	483250.00	3719150.00	0.14668
483350.00	3719150.00	0.14834	483450.00	3719150.00	0.14944
483550.00	3719150.00	0.14980	485250.00	3719150.00	0.16253
485550.00	3719150.00	0.14338	485650.00	3719150.00	0.13703

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         485950.00    3719150.00        0.11707                        484550.00
3719250.00        0.16714
         484750.00    3719250.00        0.16417                        484850.00
3719250.00        0.16227
         484750.00    3719350.00        0.15004                        484850.00
3719350.00        0.14835
         484950.00    3719350.00        0.14635                        485050.00
3719350.00        0.14430
         485150.00    3719350.00        0.14190                        484250.00
3719450.00        0.13887
         484350.00    3719450.00        0.14068                        484450.00
3719450.00        0.14106
         484550.00    3719450.00        0.14039                        484650.00
3719450.00        0.13922
         484750.00    3719450.00        0.13802                        484850.00
3719450.00        0.13670
         484950.00    3719450.00        0.13538                        485050.00
3719450.00        0.13379
         485150.00    3719450.00        0.13163                        485250.00
3719450.00        0.12965
         485350.00    3719450.00        0.12744                        485450.00
3719450.00        0.12449
         485550.00    3719450.00        0.12170                        484250.00
3719550.00        0.12635
         484350.00    3719550.00        0.12868                        484450.00
3719550.00        0.13023
         484550.00    3719550.00        0.12992                        484650.00
3719550.00        0.12911
         484750.00    3719550.00        0.12787                        484850.00
3719550.00        0.12681
         484950.00    3719550.00        0.12572                        485050.00
3719550.00        0.12406
         485150.00    3719550.00        0.12262                        485250.00
3719550.00        0.12078
         485350.00    3719550.00        0.11957                        485450.00
3719550.00        0.11731
         485550.00    3719550.00        0.11494                        484450.00
3719850.00        0.10570
         484550.00    3719850.00        0.10599                        484650.00
3719850.00        0.10546
         484350.00    3719950.00        0.09845                        484450.00
3719950.00        0.09840
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCKS ***
INCLUDING SOURCE(S): L0000075 , L0000076 , L0000077 , L0000078 , L0000079 , L0000080 , L0000081 , L0000082 , L0000083 , L0000084 , L0000085 , L0000086 , L0000087 , L0000088 , L0000089 , L0000090 , L0000091 , L0000092 , L0000093 , L0000094 , L0000095 , L0000096 , L0000097 , L0000098 , L0000099 , L0000100 , L0000101 , L0000102 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
484550.00	3719950.00	0.09843	484650.00	3719950.00	0.09939
483837.50	3717212.50	0.71112	483862.50	3717212.50	0.73078
483887.50	3717212.50	0.75258	483412.50	3717237.50	0.37756
483812.50	3717237.50	0.73997	483837.50	3717237.50	0.76545
483862.50	3717237.50	0.79016	483887.50	3717237.50	0.81591
483912.50	3717237.50	0.83834	483937.50	3717237.50	0.85772
483412.50	3717262.50	0.38929	483437.50	3717262.50	0.40601
483462.50	3717262.50	0.42352	483812.50	3717262.50	0.79454
483837.50	3717262.50	0.82596	483862.50	3717262.50	0.85655
483887.50	3717262.50	0.88833	483912.50	3717262.50	0.91467
483937.50	3717262.50	0.93798	483962.50	3717262.50	0.95956
483987.50	3717262.50	0.97552	483412.50	3717287.50	0.40127
483437.50	3717287.50	0.41931	483462.50		

3717287.50 0.43848
483487.50 3717287.50 0.45875 483812.50
3717287.50 0.86166
483837.50 3717287.50 0.89857 483862.50
3717287.50 0.93517
483887.50 3717287.50 0.97244 483912.50
3717287.50 1.00546
483937.50 3717287.50 1.03422 483962.50
3717287.50 1.05931
483987.50 3717287.50 1.07858 484012.50
3717287.50 1.09152
483412.50 3717312.50 0.41379 483437.50
3717312.50 0.43321
483462.50 3717312.50 0.45393 483487.50
3717312.50 0.47610
483512.50 3717312.50 0.49980 483787.50
3717312.50 0.89721
483812.50 3717312.50 0.94221 483837.50
3717312.50 0.98737
483862.50 3717312.50 1.03180 483887.50
3717312.50 1.07460
483912.50 3717312.50 1.11409 483937.50
3717312.50 1.14861
483962.50 3717312.50 1.17837 483987.50
3717312.50 1.20136
484012.50 3717312.50 1.21666 484037.50
3717312.50 1.22384
484562.50 3717312.50 0.60274 484587.50
3717312.50 0.57435
484612.50 3717312.50 0.54723 484637.50
3717312.50 0.52146
484662.50 3717312.50 0.49684 484687.50
3717312.50 0.47362
484712.50 3717312.50 0.45198 484737.50
3717312.50 0.43199
484762.50 3717312.50 0.41308 483412.50
3717337.50 0.42662
483437.50 3717337.50 0.44764 483462.50
3717337.50 0.47005
483487.50 3717337.50 0.49440 483512.50
3717337.50 0.52059
483537.50 3717337.50 0.54959 483787.50
3717337.50 0.97841
483812.50 3717337.50 1.03456 483837.50
3717337.50 1.08985
483862.50 3717337.50 1.14418 483887.50
3717337.50 1.19634
483912.50 3717337.50 1.24433 483937.50

3717337.50 1.28506
483962.50 3717337.50 1.32104 483987.50
3717337.50 1.34909
484012.50 3717337.50 1.36723 484037.50
3717337.50 1.37532
484562.50 3717337.50 0.62550 484587.50
3717337.50 0.59430

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCKS ***
INCLUDING SOURCE(S): L0000075 , L0000076 , L0000077 , L0000078 , L0000079 ,
L0000080 , L0000081 , L0000082 , L0000083 , L0000084 , L0000085 , L0000086 , L0000087 ,
L0000088 , L0000089 , L0000090 , L0000091 , L0000092 , L0000093 , L0000094 , L0000095 ,
L0000096 , L0000097 , L0000098 , L0000099 , L0000100 , L0000101 , L0000102 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
484612.50	3717337.50	0.56480	484637.50	3717337.50	0.53681
484662.50	3717337.50	0.51042	484687.50	3717337.50	0.48577
484712.50	3717337.50	0.46275	484737.50	3717337.50	0.44159
484762.50	3717337.50	0.42154	483412.50	3717362.50	0.43944
483437.50	3717362.50	0.46197	483462.50	3717362.50	0.48659
483487.50	3717362.50	0.51335	483512.50	3717362.50	0.54234

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         483537.50    3717362.50        0.57472                    483787.50
3717362.50        1.06874
         483812.50    3717362.50        1.13856                    483837.50
3717362.50        1.20732
         483862.50    3717362.50        1.27544                    483887.50
3717362.50        1.34047
         483912.50    3717362.50        1.39990                    483937.50
3717362.50        1.45142
         483962.50    3717362.50        1.49352                    483987.50
3717362.50        1.52829
         484012.50    3717362.50        1.55040                    484037.50
3717362.50        1.55937
         484562.50    3717362.50        0.64800                    484587.50
3717362.50        0.61387
         484612.50    3717362.50        0.58188                    484637.50
3717362.50        0.55182
         484662.50    3717362.50        0.52361                    484687.50
3717362.50        0.49705
         484712.50    3717362.50        0.47287                    484737.50
3717362.50        0.45049
         484762.50    3717362.50        0.42940                    484787.50
3717362.50        0.40938
         483412.50    3717387.50        0.45195                    483437.50
3717387.50        0.47669
         483462.50    3717387.50        0.50361                    483487.50
3717387.50        0.53276
         483512.50    3717387.50        0.56470                    483537.50
3717387.50        0.60014
         483562.50    3717387.50        0.63851                    483787.50
3717387.50        1.17013
         483812.50    3717387.50        1.25523                    483837.50
3717387.50        1.34157
         483862.50    3717387.50        1.42891                    483887.50
3717387.50        1.51149
         483912.50    3717387.50        1.58704                    483937.50
3717387.50        1.65242
         483962.50    3717387.50        1.70582                    483987.50
3717387.50        1.74879
         484012.50    3717387.50        1.77570                    484037.50
3717387.50        1.78560
         484062.50    3717387.50        1.77858                    484562.50
3717387.50        0.67024
         484587.50    3717387.50        0.63307                    484612.50
3717387.50        0.59850
         484637.50    3717387.50        0.56630                    484662.50
3717387.50        0.53632
         484687.50    3717387.50        0.50844                    484712.50
3717387.50        0.48273
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         484737.50    3717387.50        0.45884                        484762.50
3717387.50        0.43653
         484787.50    3717387.50        0.41558                        483412.50
3717412.50        0.46503
         483437.50    3717412.50        0.49177                        483462.50
3717412.50        0.52111
         483487.50    3717412.50        0.55300                        483512.50
3717412.50        0.58792
         483537.50    3717412.50        0.62644                        483562.50
3717412.50        0.66887
         483787.50    3717412.50        1.28448                        483812.50
3717412.50        1.38616
         483837.50    3717412.50        1.49368                        483862.50
3717412.50        1.60599
         483887.50    3717412.50        1.71402                        483912.50
3717412.50        1.81274
         483937.50    3717412.50        1.89879                        483962.50
3717412.50        1.96977
         483987.50    3717412.50        2.02414                        484012.50
3717412.50        2.05698
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                   PAGE 516
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TRUCKS   ***
                                   INCLUDING SOURCE(S):     L0000075    , L0000076
, L0000077    , L0000078    , L0000079    ,
                  L0000080    , L0000081    , L0000082    , L0000083    , L0000084
, L0000085    , L0000086    , L0000087    ,
                  L0000088    , L0000089    , L0000090    , L0000091    , L0000092
, L0000093    , L0000094    , L0000095    ,
                  L0000096    , L0000097    , L0000098    , L0000099    , L0000100
, L0000101    , L0000102    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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- -

484037.50 3717412.50 2.06736 484062.50
3717412.50 2.05415
484487.50 3717412.50 0.83391 484512.50
3717412.50 0.78295
484537.50 3717412.50 0.73575 484562.50
3717412.50 0.69209
484587.50 3717412.50 0.65176 484612.50
3717412.50 0.61455
484637.50 3717412.50 0.58022 484662.50
3717412.50 0.54840
484687.50 3717412.50 0.51909 484712.50
3717412.50 0.49193
484737.50 3717412.50 0.46667 484762.50
3717412.50 0.44327
484787.50 3717412.50 0.42150 483412.50
3717437.50 0.47855
483437.50 3717437.50 0.50725 483462.50
3717437.50 0.53887
483487.50 3717437.50 0.57342 483512.50
3717437.50 0.61140
483537.50 3717437.50 0.65339 483562.50
3717437.50 0.69991
483587.50 3717437.50 0.75105 483837.50
3717437.50 1.66544
483862.50 3717437.50 1.80096 483887.50
3717437.50 1.94108
483912.50 3717437.50 2.08442 483937.50
3717437.50 2.20524
483962.50 3717437.50 2.30375 483987.50
3717437.50 2.37442
484012.50 3717437.50 2.41467 484037.50
3717437.50 2.42463
484062.50 3717437.50 2.40377 484487.50
3717437.50 0.86869
484512.50 3717437.50 0.81242 484537.50
3717437.50 0.76077
484562.50 3717437.50 0.71336 484587.50
3717437.50 0.66984
484612.50 3717437.50 0.62960 484637.50
3717437.50 0.59297
484662.50 3717437.50 0.55983 484687.50
3717437.50 0.52896
484712.50 3717437.50 0.50042 484737.50
3717437.50 0.47402
484762.50 3717437.50 0.44965 483412.50
3717462.50 0.49183
483437.50 3717462.50 0.52242 483462.50

```
3717462.50        0.55615
         483487.50    3717462.50        0.59349                        483512.50
3717462.50        0.63473
         483537.50    3717462.50        0.68069                        483562.50
3717462.50        0.73162
         483587.50    3717462.50        0.78819                        483887.50
3717462.50        2.25682
         483912.50    3717462.50        2.44574                        483937.50
3717462.50        2.60981
         483962.50    3717462.50        2.74521                        483987.50
3717462.50        2.84130
         484012.50    3717462.50        2.89365                        484037.50
3717462.50        2.89915
         484062.50    3717462.50        2.85898                        484487.50
3717462.50        0.90297
         484512.50    3717462.50        0.84127                        484537.50
3717462.50        0.78506
         484562.50    3717462.50        0.73388                        484587.50
3717462.50        0.68724
         484612.50    3717462.50        0.64426                        484637.50
3717462.50        0.60411
         484662.50    3717462.50        0.56859                        484687.50
3717462.50        0.53811
         484712.50    3717462.50        0.50829                        484737.50
3717462.50        0.48086
         484762.50    3717462.50        0.45563                        483412.50
3717487.50        0.50467
         483437.50    3717487.50        0.53713                        483462.50
3717487.50        0.57315
         483487.50    3717487.50        0.61319                        483512.50
3717487.50        0.65785
         483537.50    3717487.50        0.70780                        483562.50
3717487.50        0.76359
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                   PAGE 517
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TRUCKS   ***
                                   INCLUDING SOURCE(S):     L0000075    , L0000076
, L0000077    , L0000078    , L0000079    ,
                  L0000080    , L0000081    , L0000082    , L0000083    , L0000084
, L0000085    , L0000086    , L0000087    ,
                  L0000088    , L0000089    , L0000090    , L0000091    , L0000092
```

, L0000093 , L0000094 , L0000095 ,
L0000096 , L0000097 , L0000098 , L0000099 , L0000100
, L0000101 , L0000102 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
483587.50	3717487.50	0.82604	483612.50	3717487.50	0.89599
483912.50	3717487.50	2.92509	483937.50	3717487.50	3.15661
483962.50	3717487.50	3.35122	483987.50	3717487.50	3.49131
484012.50	3717487.50	3.56023	484037.50	3717487.50	3.55130
484062.50	3717487.50	3.47161	484537.50	3717487.50	0.80843
484562.50	3717487.50	0.75346	484587.50	3717487.50	0.70373
484612.50	3717487.50	0.65862	484637.50	3717487.50	0.61692
484662.50	3717487.50	0.57781	484687.50	3717487.50	0.54501
484712.50	3717487.50	0.51570	484737.50	3717487.50	0.48725
484762.50	3717487.50	0.46120	483412.50	3717512.50	0.51711
483437.50	3717512.50	0.55196	483462.50	3717512.50	0.59042
483487.50	3717512.50	0.63298	483512.50	3717512.50	0.68068
483537.50	3717512.50	0.73461	483562.50	3717512.50	0.79564
483587.50	3717512.50	0.86462	483612.50	3717512.50	0.94240
483912.50	3717512.50	3.56103	483937.50	3717512.50	3.91340
483962.50	3717512.50	4.21314	483987.50	3717512.50	4.41897
484012.50	3717512.50	4.51059	484037.50	3717512.50	4.47567

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         484062.50    3717512.50        4.32381                    484537.50
3717512.50        0.83072
         484562.50    3717512.50        0.77203                    484587.50
3717512.50        0.71926
         484612.50    3717512.50        0.67172                    484637.50
3717512.50        0.62873
         484662.50    3717512.50        0.58944                    484687.50
3717512.50        0.55378
         484712.50    3717512.50        0.52257                    484737.50
3717512.50        0.49324
         484762.50    3717512.50        0.46643                    483412.50
3717537.50        0.52877
         483437.50    3717537.50        0.56601                    483462.50
3717537.50        0.60697
         483487.50    3717537.50        0.65244                    483512.50
3717537.50        0.70347
         483537.50    3717537.50        0.76138                    483562.50
3717537.50        0.82729
         483587.50    3717537.50        0.90270                    483612.50
3717537.50        0.98907
         483637.50    3717537.50        1.08848                    483937.50
3717537.50        4.99754
         483962.50    3717537.50        5.48514                    483987.50
3717537.50        5.81704
         484012.50    3717537.50        5.93851                    484037.50
3717537.50        5.83229
         484062.50    3717537.50        5.52772                    483412.50
3717562.50        0.53944
         483437.50    3717562.50        0.57849                    483462.50
3717562.50        0.62173
         483487.50    3717562.50        0.67017                    483512.50
3717562.50        0.72490
         483537.50    3717562.50        0.78705                    483562.50
3717562.50        0.85824
         483587.50    3717562.50        0.94001                    483612.50
3717562.50        1.03453
         483637.50    3717562.50        1.14465                    483937.50
3717562.50        6.60922
         483962.50    3717562.50        7.49592                    483987.50
3717562.50        8.09545
         484012.50    3717562.50        8.26281                    484037.50
3717562.50        7.94568
         484062.50    3717562.50        7.29137                    483412.50
3717587.50        0.54919
         483437.50    3717587.50        0.58984                    483462.50
3717587.50        0.63527
```

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TRUCKS   ***
                                  INCLUDING SOURCE(S):   L0000075   , L0000076
, L0000077   , L0000078   , L0000079   ,
                  L0000080   , L0000081   , L0000082   , L0000083   , L0000084
, L0000085   , L0000086   , L0000087   ,
                  L0000088   , L0000089   , L0000090   , L0000091   , L0000092
, L0000093   , L0000094   , L0000095   ,
                  L0000096   , L0000097   , L0000098   , L0000099   , L0000100
, L0000101   , L0000102   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 - - -

```
3717612.50        0.38746
         484512.50    3717637.50        1.00880                    484537.50
3717637.50        0.92270
         484562.50    3717637.50        0.84762                    484587.50
3717637.50        0.78185
         484612.50    3717637.50        0.72382                    484637.50
3717637.50        0.67232
         484662.50    3717637.50        0.62661                    484687.50
3717637.50        0.58571
         484712.50    3717637.50        0.54897                    484737.50
3717637.50        0.51568
         484762.50    3717637.50        0.48553                    484787.50
3717637.50        0.45839
         484812.50    3717637.50        0.43375                    484837.50
3717637.50        0.41107
         484862.50    3717637.50        0.39015                    484512.50
3717662.50        1.02716
         484537.50    3717662.50        0.93769                    484562.50
3717662.50        0.85981
         484587.50    3717662.50        0.79188                    484612.50
3717662.50        0.73215
         484637.50    3717662.50        0.67927                    484662.50
3717662.50        0.63239
         484687.50    3717662.50        0.59077                    484712.50
3717662.50        0.55344
         484737.50    3717662.50        0.51982                    484762.50
3717662.50        0.48928
         484787.50    3717662.50        0.46244                    484812.50
3717662.50        0.43751
         484837.50    3717662.50        0.41409                    484862.50
3717662.50        0.39270
         484512.50    3717687.50        1.04498                    484537.50
3717687.50        0.95201
         484562.50    3717687.50        0.87170                    484587.50
3717687.50        0.80158
         484612.50    3717687.50        0.74013                    484637.50
3717687.50        0.68599
         484662.50    3717687.50        0.63808                    484687.50
3717687.50        0.59569
         484712.50    3717687.50        0.55768                    484737.50
3717687.50        0.52362
         484762.50    3717687.50        0.49316                    484787.50
3717687.50        0.46571
         484812.50    3717687.50        0.44064                    484837.50
3717687.50        0.41738
         484862.50    3717687.50        0.39516                    484512.50
3717712.50        1.06271
         484537.50    3717712.50        0.96639                    484562.50
```

3717712.50 0.88321
484587.50 3717712.50 0.81115 484612.50
3717712.50 0.74820
484637.50 3717712.50 0.69288 484662.50
3717712.50 0.64393
484687.50 3717712.50 0.60056 484712.50
3717712.50 0.56183
484737.50 3717712.50 0.52720 484762.50
3717712.50 0.49611
484787.50 3717712.50 0.46802 484812.50
3717712.50 0.44268

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCKS ***
INCLUDING SOURCE(S): L0000075 , L0000076 , L0000077 , L0000078 , L0000079 ,
L0000080 , L0000081 , L0000082 , L0000083 , L0000084 , L0000085 , L0000086 , L0000087 ,
L0000088 , L0000089 , L0000090 , L0000091 , L0000092 , L0000093 , L0000094 , L0000095 ,
L0000096 , L0000097 , L0000098 , L0000099 , L0000100 , L0000101 , L0000102 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
484837.50	3717712.50	0.41935	484862.50	3717712.50	0.39744
484512.50	3717737.50	1.07946	484537.50	3717737.50	0.98043
484562.50	3717737.50	0.89513	484587.50	3717737.50	0.82117
484612.50	3717737.50	0.75667	484637.50	3717737.50	0.70001

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         484662.50    3717737.50        0.64996                    484687.50
3717737.50        0.60555
         484712.50    3717737.50        0.56606                    484737.50
3717737.50        0.53084
         484762.50    3717737.50        0.49921                    484787.50
3717737.50        0.47051
         484812.50    3717737.50        0.44444                    484837.50
3717737.50        0.42074
         484862.50    3717737.50        0.39910                    484512.50
3717762.50        1.09654
         484537.50    3717762.50        0.99491                    484562.50
3717762.50        0.90740
         484587.50    3717762.50        0.83177                    484612.50
3717762.50        0.76564
         484637.50    3717762.50        0.70751                    484662.50
3717762.50        0.65638
         484687.50    3717762.50        0.61103                    484712.50
3717762.50        0.57079
         484737.50    3717762.50        0.53492                    484762.50
3717762.50        0.50283
         484787.50    3717762.50        0.47357                    484812.50
3717762.50        0.44679
         484837.50    3717762.50        0.42254                    484862.50
3717762.50        0.40055
         484512.50    3717787.50        1.11357                    484537.50
3717787.50        1.00943
         484562.50    3717787.50        0.92016                    484587.50
3717787.50        0.84263
         484612.50    3717787.50        0.77482                    484637.50
3717787.50        0.71543
         484662.50    3717787.50        0.66321                    484687.50
3717787.50        0.61707
         484712.50    3717787.50        0.57613                    484737.50
3717787.50        0.53975
         484762.50    3717787.50        0.50691                    484787.50
3717787.50        0.47715
         484812.50    3717787.50        0.44995                    484837.50
3717787.50        0.42502
         484862.50    3717787.50        0.40282                    483412.50
3717812.50        0.59030
         483437.50    3717812.50        0.63702                    483462.50
3717812.50        0.69043
         483487.50    3717812.50        0.75197                    484512.50
3717812.50        1.13043
         484537.50    3717812.50        1.02400                    484562.50
3717812.50        0.93258
         484587.50    3717812.50        0.85350                    484612.50
3717812.50        0.78433
```

```
         484637.50    3717812.50        0.72359                        484662.50
3717812.50        0.67038
         484687.50    3717812.50        0.62344                        484712.50
3717812.50        0.58182
         484737.50    3717812.50        0.54469                        484762.50
3717812.50        0.51135
         484787.50    3717812.50        0.48108                        484812.50
3717812.50        0.45358
         484837.50    3717812.50        0.42849                        484862.50
3717812.50        0.40595
         483412.50    3717837.50        0.58853                        483437.50
3717837.50        0.63491
         483462.50    3717837.50        0.68791                        483487.50
3717837.50        0.74892
         483512.50    3717837.50        0.81957                        484512.50
3717837.50        1.14681
         484537.50    3717837.50        1.03818                        484562.50
3717837.50        0.94495
         484587.50    3717837.50        0.86435                        484612.50
3717837.50        0.79402
         484637.50    3717837.50        0.73221                        484662.50
3717837.50        0.67796
         484687.50    3717837.50        0.63019                        484712.50
3717837.50        0.58786
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 520
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TRUCKS   ***
                                  INCLUDING SOURCE(S):     L0000075    , L0000076
, L0000077    , L0000078    , L0000079    ,
                  L0000080    , L0000081    , L0000082    , L0000083    , L0000084
, L0000085    , L0000086    , L0000087    ,
                  L0000088    , L0000089    , L0000090    , L0000091    , L0000092
, L0000093    , L0000094    , L0000095    ,
                  L0000096    , L0000097    , L0000098    , L0000099    , L0000100
, L0000101    , L0000102    ,  . . .      ,

                                     *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                     ** CONC OF PM_10    IN MICROGRAMS/M**3
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X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
484737.50	3717837.50	0.55000	484762.50	3717837.50	0.51598
484787.50	3717837.50	0.48532	484812.50	3717837.50	0.45747
484837.50	3717837.50	0.43225	484862.50	3717837.50	0.40925
483412.50	3717862.50	0.58552	483437.50	3717862.50	0.63139
483462.50	3717862.50	0.68377	483487.50	3717862.50	0.74391
483512.50	3717862.50	0.81339	484512.50	3717862.50	1.16244
484537.50	3717862.50	1.05203	484562.50	3717862.50	0.95723
484587.50	3717862.50	0.87523	484612.50	3717862.50	0.80376
484637.50	3717862.50	0.74100	484662.50	3717862.50	0.68582
484687.50	3717862.50	0.63717	484712.50	3717862.50	0.59403
484737.50	3717862.50	0.55543	484762.50	3717862.50	0.52085
484787.50	3717862.50	0.48974	484812.50	3717862.50	0.46158
484837.50	3717862.50	0.43596	484862.50	3717862.50	0.41274
483412.50	3717887.50	0.58135	483437.50	3717887.50	0.62650
483462.50	3717887.50	0.67792	483487.50	3717887.50	0.73556
483512.50	3717887.50	0.80309	483537.50	3717887.50	0.88242
484512.50	3717887.50	1.17673	484537.50	3717887.50	1.06512
484562.50	3717887.50	0.96906	484587.50	3717887.50	0.88588
484612.50	3717887.50	0.81336	484637.50	3717887.50	0.74979
484662.50	3717887.50	0.69376	484687.50	3717887.50	0.64434
484712.50	3717887.50	0.60039	484737.50	3717887.50	0.56113
484762.50	3717887.50	0.52596	484787.50		

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3717887.50        0.49435
         484812.50    3717887.50        0.46581                        484837.50
3717887.50        0.43985
         484862.50    3717887.50        0.41627                        483412.50
3717912.50        0.57611
         483437.50    3717912.50        0.62034                        483462.50
3717912.50        0.67037
         483487.50    3717912.50        0.72334                        483512.50
3717912.50        0.78816
         483537.50    3717912.50        0.86439                        483562.50
3717912.50        0.95558
         484512.50    3717912.50        1.18897                        484537.50
3717912.50        1.07678
         484562.50    3717912.50        0.97995                        484587.50
3717912.50        0.89593
         484612.50    3717912.50        0.82263                        484637.50
3717912.50        0.75826
         484662.50    3717912.50        0.70160                        484687.50
3717912.50        0.65139
         484712.50    3717912.50        0.60679                        484737.50
3717912.50        0.56696
         484762.50    3717912.50        0.53126                        484787.50
3717912.50        0.49913
         484812.50    3717912.50        0.47014                        484837.50
3717912.50        0.44388
         484862.50    3717912.50        0.41988                        483412.50
3717937.50        0.56975
         483437.50    3717937.50        0.61292                        483462.50
3717937.50        0.66188
         483487.50    3717937.50        0.71398                        483512.50
3717937.50        0.77642
         483537.50    3717937.50        0.84981                        483562.50
3717937.50        0.93514
         483587.50    3717937.50        1.04111                        484512.50
3717937.50        1.19838
         484537.50    3717937.50        1.08633                        484562.50
3717937.50        0.98936
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 521
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                  *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TRUCKS   ***
                                  INCLUDING SOURCE(S):     L0000075    , L0000076
```

, L0000077 , L0000078 , L0000079 ,
L0000080 , L0000081 , L0000082 , L0000083 , L0000084
, L0000085 , L0000086 , L0000087 ,
L0000088 , L0000089 , L0000090 , L0000091 , L0000092
, L0000093 , L0000094 , L0000095 ,
L0000096 , L0000097 , L0000098 , L0000099 , L0000100
, L0000101 , L0000102 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
484587.50	3717937.50	0.90497	484612.50	3717937.50	0.83115
484637.50	3717937.50	0.76628	484662.50	3717937.50	0.70901
484687.50	3717937.50	0.65829	484712.50	3717937.50	0.61311
484737.50	3717937.50	0.57275	484762.50	3717937.50	0.53659
484787.50	3717937.50	0.50400	484812.50	3717937.50	0.47457
484837.50	3717937.50	0.44793	484862.50	3717937.50	0.42367
483412.50	3717962.50	0.56164	483437.50	3717962.50	0.60351
483462.50	3717962.50	0.65122	483487.50	3717962.50	0.70544
483512.50	3717962.50	0.76524	483537.50	3717962.50	0.83585
483562.50	3717962.50	0.91970	483587.50	3717962.50	1.02061
483612.50	3717962.50	1.13507	484512.50	3717962.50	1.20408
484537.50	3717962.50	1.09308	484562.50	3717962.50	0.99664
484587.50	3717962.50	0.91241	484612.50	3717962.50	0.83852
484637.50	3717962.50	0.77343	484662.50	3717962.50	0.71583
484687.50	3717962.50	0.66474	484712.50	3717962.50	0.61917

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         484737.50    3717962.50        0.57834                    484762.50
3717962.50        0.54174
         484787.50    3717962.50        0.50878                    484812.50
3717962.50        0.47899
         484837.50    3717962.50        0.45197                    484862.50
3717962.50        0.42739
         483412.50    3717987.50        0.55238                    483437.50
3717987.50        0.59284
         483462.50    3717987.50        0.63855                    483487.50
3717987.50        0.69107
         483512.50    3717987.50        0.75174                    483537.50
3717987.50        0.82123
         483562.50    3717987.50        0.90180                    483587.50
3717987.50        0.99486
         483612.50    3717987.50        1.10243                    484512.50
3717987.50        1.20521
         484537.50    3717987.50        1.09627                    484562.50
3717987.50        1.00114
         484587.50    3717987.50        0.91773                    484612.50
3717987.50        0.84427
         484637.50    3717987.50        0.77932                    484662.50
3717987.50        0.72173
         484687.50    3717987.50        0.67038                    484712.50
3717987.50        0.62463
         484737.50    3717987.50        0.58360                    484762.50
3717987.50        0.54667
         484787.50    3717987.50        0.51338                    484812.50
3717987.50        0.48327
         484837.50    3717987.50        0.45597                    484862.50
3717987.50        0.43114
         483412.50    3718012.50        0.54190                    483437.50
3718012.50        0.58132
         483462.50    3718012.50        0.62509                    483487.50
3718012.50        0.67582
         483512.50    3718012.50        0.73430                    483537.50
3718012.50        0.80083
         483562.50    3718012.50        0.87779                    483587.50
3718012.50        0.96539
         483612.50    3718012.50        1.06553                    483637.50
3718012.50        1.18533
         484512.50    3718012.50        1.20107                    484537.50
3718012.50        1.09513
         484562.50    3718012.50        1.00222                    484587.50
3718012.50        0.92037
         484612.50    3718012.50        0.84792                    484637.50
3718012.50        0.78356
         484662.50    3718012.50        0.72625                    484687.50
3718012.50        0.67511
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484712.50 3718012.50 0.62934 484737.50 3718012.50 0.58822

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCKS ***
INCLUDING SOURCE(S): L0000075 , L0000076 , L0000077 , L0000078 , L0000079 ,
L0000080 , L0000081 , L0000082 , L0000083 , L0000084 , L0000085 , L0000086 , L0000087 ,
L0000088 , L0000089 , L0000090 , L0000091 , L0000092 , L0000093 , L0000094 , L0000095 ,
L0000096 , L0000097 , L0000098 , L0000099 , L0000100 , L0000101 , L0000102 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
484762.50	3718012.50	0.55116	484787.50	3718012.50	0.51767
484812.50	3718012.50	0.48737	484837.50	3718012.50	0.45983
484862.50	3718012.50	0.43477	483412.50	3718037.50	0.53091
483437.50	3718037.50	0.56879	483462.50	3718037.50	0.61113
483487.50	3718037.50	0.66001	483512.50	3718037.50	0.71554
483537.50	3718037.50	0.78011	483562.50	3718037.50	0.85322
483587.50	3718037.50	0.93347	483612.50	3718037.50	1.02426
483637.50	3718037.50	1.13689	483662.50	3718037.50	1.26315
484512.50	3718037.50	1.19107	484537.50		

```
3718037.50        1.08938
         484562.50    3718037.50        0.99956                    484587.50
3718037.50        0.91993
         484612.50    3718037.50        0.84908                    484637.50
3718037.50        0.78583
         484662.50    3718037.50        0.72921                    484687.50
3718037.50        0.67856
         484712.50    3718037.50        0.63298                    484737.50
3718037.50        0.59203
         484762.50    3718037.50        0.55497                    484787.50
3718037.50        0.52148
         484812.50    3718037.50        0.49105                    484837.50
3718037.50        0.46337
         484862.50    3718037.50        0.43813                    483412.50
3718062.50        0.51851
         483437.50    3718062.50        0.55524                    483462.50
3718062.50        0.59691
         483487.50    3718062.50        0.64368                    483512.50
3718062.50        0.69721
         483537.50    3718062.50        0.75823                    483562.50
3718062.50        0.82761
         483587.50    3718062.50        0.90100                    483612.50
3718062.50        0.98661
         483637.50    3718062.50        1.08856                    483662.50
3718062.50        1.20172
         484512.50    3718062.50        1.17520                    484537.50
3718062.50        1.07869
         484562.50    3718062.50        0.99279                    484587.50
3718062.50        0.91613
         484612.50    3718062.50        0.84742                    484637.50
3718062.50        0.78571
         484662.50    3718062.50        0.73024                    484687.50
3718062.50        0.68033
         483412.50    3718087.50        0.50422                    483437.50
3718087.50        0.53952
         483462.50    3718087.50        0.58055                    483487.50
3718087.50        0.62716
         483512.50    3718087.50        0.67784                    483537.50
3718087.50        0.73603
         483562.50    3718087.50        0.80001                    483587.50
3718087.50        0.87003
         483612.50    3718087.50        0.95225                    483637.50
3718087.50        1.04187
         483662.50    3718087.50        1.13850                    484512.50
3718087.50        1.15356
         484537.50    3718087.50        1.06309                    484562.50
3718087.50        0.98177
         484587.50    3718087.50        0.90864                    484612.50
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3718087.50 0.84269
484637.50 3718087.50 0.78311 484662.50
3718087.50 0.72917
484687.50 3718087.50 0.68040 483412.50
3718112.50 0.49211
483437.50 3718112.50 0.52659 483462.50
3718112.50 0.56671
483487.50 3718112.50 0.61074 483512.50
3718112.50 0.65863
483537.50 3718112.50 0.71141 483562.50
3718112.50 0.77006
483587.50 3718112.50 0.83960 483612.50
3718112.50 0.91189
483637.50 3718112.50 0.99115 483662.50
3718112.50 1.07813

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCKS ***
INCLUDING SOURCE(S): L0000075 , L0000076 , L0000077 , L0000078 , L0000079 ,
L0000080 , L0000081 , L0000082 , L0000083 , L0000084 , L0000085 , L0000086 , L0000087 ,
L0000088 , L0000089 , L0000090 , L0000091 , L0000092 , L0000093 , L0000094 , L0000095 ,
L0000096 , L0000097 , L0000098 , L0000099 , L0000100 , L0000101 , L0000102 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
483687.50	3718112.50	1.17836	484512.50	3718112.50	1.12618
484537.50	3718112.50	1.04249	484562.50	3718112.50	0.96647

```
         484587.50    3718112.50        0.89748                    484612.50
3718112.50        0.83478
         484637.50    3718112.50        0.77774                    484662.50
3718112.50        0.72582
         484687.50    3718112.50        0.67856                    483412.50
3718137.50        0.48403
         483437.50    3718137.50        0.51673                    483462.50
3718137.50        0.55453
         483487.50    3718137.50        0.59478                    483512.50
3718137.50        0.63916
         483537.50    3718137.50        0.68752                    483562.50
3718137.50        0.74160
         483587.50    3718137.50        0.80209                    483612.50
3718137.50        0.86879
         483637.50    3718137.50        0.94172                    483662.50
3718137.50        1.02335
         483687.50    3718137.50        1.11186                    484512.50
3718137.50        1.09363
         484537.50    3718137.50        1.01719                    484562.50
3718137.50        0.94697
         484587.50    3718137.50        0.88261                    484612.50
3718137.50        0.82368
         484637.50    3718137.50        0.76964                    484662.50
3718137.50        0.72012
         484687.50    3718137.50        0.67477                    483412.50
3718162.50        0.47704
         483437.50    3718162.50        0.50791                    483462.50
3718162.50        0.54272
         483487.50    3718162.50        0.58012                    483512.50
3718162.50        0.62163
         483537.50    3718162.50        0.66725                    483562.50
3718162.50        0.71708
         483587.50    3718162.50        0.77168                    483612.50
3718162.50        0.83201
         483637.50    3718162.50        0.89939                    483662.50
3718162.50        0.97182
         483687.50    3718162.50        1.05042                    484512.50
3718162.50        1.05678
         484537.50    3718162.50        0.98772                    484562.50
3718162.50        0.92368
         484587.50    3718162.50        0.86435                    484612.50
3718162.50        0.80949
         484637.50    3718162.50        0.75880                    484662.50
3718162.50        0.71202
         484687.50    3718162.50        0.66888                    484712.50
3718162.50        0.62911
         484737.50    3718162.50        0.59247                    484762.50
3718162.50        0.55868
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```
         484787.50    3718162.50        0.52749                          484812.50
3718162.50        0.49876
         484837.50    3718162.50        0.47218                          484862.50
3718162.50        0.44756
         483412.50    3718187.50        0.46851                          483437.50
3718187.50        0.49605
         483462.50    3718187.50        0.53022                          483487.50
3718187.50        0.56624
         483512.50    3718187.50        0.60544                          483537.50
3718187.50        0.64834
         483562.50    3718187.50        0.69397                          484512.50
3718187.50        1.01648
         484537.50    3718187.50        0.95491                          484562.50
3718187.50        0.89706
         484587.50    3718187.50        0.84293                          484612.50
3718187.50        0.79243
         484637.50    3718187.50        0.74535                          484662.50
3718187.50        0.70154
         484687.50    3718187.50        0.66085                          484712.50
3718187.50        0.62309
         484737.50    3718187.50        0.58805                          484762.50
3718187.50        0.55558
         484787.50    3718187.50        0.52548                          484812.50
3718187.50        0.49756
         484837.50    3718187.50        0.47165                          484862.50
3718187.50        0.44775
         484162.50    3718212.50        1.67700                          484187.50
3718212.50        1.66352
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                   PAGE 524
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TRUCKS   ***
                                   INCLUDING SOURCE(S):     L0000075    , L0000076
, L0000077    , L0000078    , L0000079    ,
                  L0000080    , L0000081    , L0000082    , L0000083    , L0000084
, L0000085    , L0000086    , L0000087    ,
                  L0000088    , L0000089    , L0000090    , L0000091    , L0000092
, L0000093    , L0000094    , L0000095    ,
                  L0000096    , L0000097    , L0000098    , L0000099    , L0000100
, L0000101    , L0000102    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
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** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
484212.50	3718212.50	1.64024	484512.50	3718212.50	0.97362
484537.50	3718212.50	0.91931	484562.50	3718212.50	0.86768
484587.50	3718212.50	0.81886	484612.50	3718212.50	0.77280
484637.50	3718212.50	0.72949	484662.50	3718212.50	0.68884
484687.50	3718212.50	0.65078	484712.50	3718212.50	0.61520
484737.50	3718212.50	0.58200	484762.50	3718212.50	0.55102
484787.50	3718212.50	0.52212	484812.50	3718212.50	0.49519
484837.50	3718212.50	0.47029	484862.50	3718212.50	0.44708
484512.50	3718237.50	0.92912	484537.50	3718237.50	0.88175
484562.50	3718237.50	0.83616	484587.50	3718237.50	0.79255
484612.50	3718237.50	0.75097	484637.50	3718237.50	0.71150
484662.50	3718237.50	0.67411	484687.50	3718237.50	0.63882
484712.50	3718237.50	0.60557	484737.50	3718237.50	0.57433
484762.50	3718237.50	0.54499	484787.50	3718237.50	0.51748
484812.50	3718237.50	0.49175	484837.50	3718237.50	0.46775
484862.50	3718237.50	0.44526	483412.50	3718262.50	0.43138
483437.50	3718262.50	0.45555	484137.50	3718262.50	1.29495
484162.50	3718262.50	1.29663	484212.50	3718262.50	1.28541
484512.50	3718262.50	0.88391	484537.50	3718262.50	0.84296
484562.50	3718262.50	0.80311	484587.50		

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3718262.50        0.76452
         484612.50    3718262.50        0.72736                        484637.50
3718262.50        0.69169
         484662.50    3718262.50        0.65761                        484687.50
3718262.50        0.62513
         484712.50    3718262.50        0.59432                        484737.50
3718262.50        0.56516
         484762.50    3718262.50        0.53760                        484787.50
3718262.50        0.51157
         484812.50    3718262.50        0.48712                        484837.50
3718262.50        0.46413
         484862.50    3718262.50        0.44252                        483412.50
3718287.50        0.42363
         483437.50    3718287.50        0.44513                        484212.50
3718287.50        1.14823
         484512.50    3718287.50        0.83877                        484537.50
3718287.50        0.80368
         484562.50    3718287.50        0.76916                        484587.50
3718287.50        0.73532
         484612.50    3718287.50        0.70237                        484637.50
3718287.50        0.67043
         484662.50    3718287.50        0.63961                        484687.50
3718287.50        0.60996
         484712.50    3718287.50        0.58160                        484737.50
3718287.50        0.55457
         484762.50    3718287.50        0.52885                        484787.50
3718287.50        0.50443
         484812.50    3718287.50        0.48129                        484837.50
3718287.50        0.45944
         484862.50    3718287.50        0.43882                        483412.50
3718312.50        0.41134
         483437.50    3718312.50        0.43054                        484187.50
3718312.50        1.03517
         483412.50    3718337.50        0.40146                        483437.50
3718337.50        0.42093
         484187.50    3718337.50        0.93526                        483412.50
3718412.50        0.36751
         483437.50    3718412.50        0.38865                        483412.50
3718437.50        0.35480
         483437.50    3718437.50        0.37507                        484462.50
3718462.50        0.58063
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 525
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCKS ***
INCLUDING SOURCE(S): L0000075 , L0000076 , L0000077 , L0000078 , L0000079 , L0000080 , L0000081 , L0000082 , L0000083 , L0000084 , L0000085 , L0000086 , L0000087 , L0000088 , L0000089 , L0000090 , L0000091 , L0000092 , L0000093 , L0000094 , L0000095 , L0000096 , L0000097 , L0000098 , L0000099 , L0000100 , L0000101 , L0000102 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
484487.50	3718462.50	0.57275	484462.50	3718487.50	0.54777
484487.50	3718487.50	0.54084			

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
481950.00	3715450.00	0.31713	482050.00	3715450.00	0.32465
482150.00	3715450.00	0.32984	482250.00	3715450.00	0.34123
482350.00	3715450.00	0.35118	482450.00	3715450.00	0.35698
482550.00	3715450.00	0.36551	482650.00	3715450.00	0.37566
482750.00	3715450.00	0.38704	482850.00	3715450.00	0.39939
482950.00	3715450.00	0.40933	483050.00	3715450.00	0.42110
483150.00	3715450.00	0.43129	483250.00	3715450.00	0.43981
483350.00	3715450.00	0.44847	483450.00	3715450.00	0.45588
483550.00	3715450.00	0.46319	483650.00	3715450.00	0.46681
483750.00	3715450.00	0.47407	483850.00	3715450.00	0.48062
483950.00	3715450.00	0.48469	484050.00	3715450.00	0.48680
484150.00	3715450.00	0.48665	484250.00	3715450.00	0.48821
484350.00	3715450.00	0.49247	484450.00	3715450.00	0.49499
481950.00	3715550.00	0.32514	482050.00	3715550.00	0.33425
482150.00	3715550.00	0.34031	482250.00	3715550.00	0.35131
482350.00	3715550.00	0.35873	482550.00	3715550.00	0.37877
482650.00	3715550.00	0.38968	482750.00	3715550.00	0.40027
482850.00	3715550.00	0.41171	482950.00	3715550.00	0.42523
483050.00	3715550.00	0.43905	483150.00	3715550.00	0.45085
483250.00	3715550.00	0.46129	483350.00	3715550.00	0.47005
483450.00	3715550.00	0.47807	483550.00		

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3715550.00        0.48631
         483650.00    3715550.00        0.49300                    483750.00
3715550.00        0.49840
         483850.00    3715550.00        0.50770                    483950.00
3715550.00        0.51253
         484050.00    3715550.00        0.51615                    484250.00
3715550.00        0.51741
         484350.00    3715550.00        0.51605                    484450.00
3715550.00        0.51772
         484550.00    3715550.00        0.52252                    484950.00
3715550.00        0.54723
         485050.00    3715550.00        0.54004                    481950.00
3715650.00        0.33413
         482050.00    3715650.00        0.34343                    482150.00
3715650.00        0.35348
         482250.00    3715650.00        0.36154                    482350.00
3715650.00        0.36972
         482450.00    3715650.00        0.38143                    482650.00
3715650.00        0.40453
         482750.00    3715650.00        0.41838                    482850.00
3715650.00        0.42977
         482950.00    3715650.00        0.44004                    483050.00
3715650.00        0.45511
         483150.00    3715650.00        0.47087                    483250.00
3715650.00        0.48467
         483350.00    3715650.00        0.49559                    483450.00
3715650.00        0.50414
         483550.00    3715650.00        0.51399                    483650.00
3715650.00        0.51864
         483750.00    3715650.00        0.52966                    483850.00
3715650.00        0.53181
         483950.00    3715650.00        0.54261                    484050.00
3715650.00        0.54189
         484150.00    3715650.00        0.54348                    484350.00
3715650.00        0.55070
         484450.00    3715650.00        0.54559                    484550.00
3715650.00        0.54808
         484650.00    3715650.00        0.54869                    484750.00
3715650.00        0.55142
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                       ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 527
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
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VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
484950.00	3715650.00	0.55989	485050.00	3715650.00	0.55480
481950.00	3715750.00	0.34283	482050.00	3715750.00	0.35311
482150.00	3715750.00	0.36150	482250.00	3715750.00	0.37085
482350.00	3715750.00	0.38350	482450.00	3715750.00	0.39576
482550.00	3715750.00	0.41015	482750.00	3715750.00	0.43313
482850.00	3715750.00	0.45260	482950.00	3715750.00	0.46233
483050.00	3715750.00	0.47822	483150.00	3715750.00	0.49566
483250.00	3715750.00	0.50843	483350.00	3715750.00	0.52235
483450.00	3715750.00	0.53101	483550.00	3715750.00	0.54374
483650.00	3715750.00	0.55039	483750.00	3715750.00	0.56003
483850.00	3715750.00	0.56638	483950.00	3715750.00	0.57312
484050.00	3715750.00	0.57948	484150.00	3715750.00	0.57838
484250.00	3715750.00	0.57623	484550.00	3715750.00	0.57587
484650.00	3715750.00	0.57426	484750.00	3715750.00	0.57302

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         484850.00    3715750.00        0.56829                    484950.00
3715750.00        0.56499
         485050.00    3715750.00        0.56022                    481950.00
3715850.00        0.35297
         482050.00    3715850.00        0.36436                    482150.00
3715850.00        0.37200
         482250.00    3715850.00        0.38602                    482350.00
3715850.00        0.39740
         482450.00    3715850.00        0.41175                    482550.00
3715850.00        0.42481
         482650.00    3715850.00        0.43975                    482750.00
3715850.00        0.45571
         482850.00    3715850.00        0.47108                    482950.00
3715850.00        0.48620
         483050.00    3715850.00        0.49984                    483150.00
3715850.00        0.52022
         483350.00    3715850.00        0.55081                    483450.00
3715850.00        0.56301
         483550.00    3715850.00        0.57595                    483650.00
3715850.00        0.58567
         483750.00    3715850.00        0.59958                    483850.00
3715850.00        0.60644
         483950.00    3715850.00        0.60975                    484050.00
3715850.00        0.61885
         484150.00    3715850.00        0.61834                    484250.00
3715850.00        0.61596
         484550.00    3715850.00        0.61545                    484650.00
3715850.00        0.60866
         484750.00    3715850.00        0.60346                    484850.00
3715850.00        0.59749
         485150.00    3715850.00        0.57962                    485250.00
3715850.00        0.58427
         481950.00    3715950.00        0.36306                    482050.00
3715950.00        0.37249
         482150.00    3715950.00        0.38528                    482250.00
3715950.00        0.40010
         482350.00    3715950.00        0.41301                    482450.00
3715950.00        0.42633
         482550.00    3715950.00        0.44257                    482650.00
3715950.00        0.45689
         482750.00    3715950.00        0.47236                    482850.00
3715950.00        0.49080
         482950.00    3715950.00        0.51169                    483050.00
3715950.00        0.53003
         483350.00    3715950.00        0.58278                    483450.00
3715950.00        0.60006
         483550.00    3715950.00        0.61161                    483650.00
3715950.00        0.62442
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         483750.00    3715950.00        0.63518                       483850.00
3715950.00        0.65070
         483950.00    3715950.00        0.65120                       484050.00
3715950.00        0.66111
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 528
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                  *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                 L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                 L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                 L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
         484150.00    3715950.00        0.66536                       484250.00
3715950.00        0.66215
         484850.00    3715950.00        0.63332                       485150.00
3715950.00        0.61224
         485250.00    3715950.00        0.62250                       481950.00
3716050.00        0.37354
         482050.00    3716050.00        0.38481                       482150.00
3716050.00        0.39853
         482250.00    3716050.00        0.41343                       482350.00
3716050.00        0.42756
         482450.00    3716050.00        0.44297                       482550.00
3716050.00        0.46024
         482650.00    3716050.00        0.47729                       482750.00
3716050.00        0.49304
         482850.00    3716050.00        0.51531                       482950.00
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3716050.00 0.53491
483050.00 3716050.00 0.55596 483150.00
3716050.00 0.57488
483350.00 3716050.00 0.61772 483450.00
3716050.00 0.63841
483550.00 3716050.00 0.65402 483650.00
3716050.00 0.66617
483750.00 3716050.00 0.68454 483850.00
3716050.00 0.69755
483950.00 3716050.00 0.70421 484050.00
3716050.00 0.70845
484150.00 3716050.00 0.71696 484250.00
3716050.00 0.71258
484450.00 3716050.00 0.70271 484750.00
3716050.00 0.68397
484850.00 3716050.00 0.67380 485050.00
3716050.00 0.65377
485150.00 3716050.00 0.64652 485250.00
3716050.00 0.64976
485350.00 3716050.00 0.62669 485450.00
3716050.00 0.62244
481950.00 3716150.00 0.38481 482050.00
3716150.00 0.39840
482150.00 3716150.00 0.41243 482250.00
3716150.00 0.42788
482350.00 3716150.00 0.44445 482450.00
3716150.00 0.46061
482550.00 3716150.00 0.47813 482650.00
3716150.00 0.49779
482750.00 3716150.00 0.51747 482850.00
3716150.00 0.53797
482950.00 3716150.00 0.56263 483050.00
3716150.00 0.58684
483150.00 3716150.00 0.60791 483450.00
3716150.00 0.68136
483550.00 3716150.00 0.70166 483650.00
3716150.00 0.71689
483750.00 3716150.00 0.73739 483850.00
3716150.00 0.75169
483950.00 3716150.00 0.76296 484150.00
3716150.00 0.77482
484250.00 3716150.00 0.77211 484350.00
3716150.00 0.77020
484450.00 3716150.00 0.76142 484850.00
3716150.00 0.72011
484950.00 3716150.00 0.70702 485150.00
3716150.00 0.68147
485250.00 3716150.00 0.66726 485350.00

3716150.00 0.65505
485450.00 3716150.00 0.64432 481950.00
3716250.00 0.39587
482050.00 3716250.00 0.41209 482150.00
3716250.00 0.42813
482250.00 3716250.00 0.44400 482350.00
3716250.00 0.46063
482450.00 3716250.00 0.47906 482550.00
3716250.00 0.49865
482650.00 3716250.00 0.51949 482750.00
3716250.00 0.54195
482850.00 3716250.00 0.56683 482950.00
3716250.00 0.59250
483050.00 3716250.00 0.61842 483150.00
3716250.00 0.64582
483450.00 3716250.00 0.72793 483550.00
3716250.00 0.75420

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
483650.00	3716250.00	0.77613	483750.00	3716250.00	0.79743

```
         483850.00    3716250.00        0.81482                    483950.00
3716250.00        0.82635
         484150.00    3716250.00        0.85281                    484850.00
3716250.00        0.77799
         484950.00    3716250.00        0.76393                    485050.00
3716250.00        0.73809
         485150.00    3716250.00        0.72157                    485250.00
3716250.00        0.70640
         485350.00    3716250.00        0.69211                    481950.00
3716350.00        0.40869
         482050.00    3716350.00        0.42663                    482150.00
3716350.00        0.44398
         482250.00    3716350.00        0.46475                    482350.00
3716350.00        0.48058
         482450.00    3716350.00        0.49919                    482550.00
3716350.00        0.52052
         482650.00    3716350.00        0.54390                    482750.00
3716350.00        0.56931
         482850.00    3716350.00        0.59516                    482950.00
3716350.00        0.62518
         483050.00    3716350.00        0.65549                    483150.00
3716350.00        0.68712
         483450.00    3716350.00        0.78394                    483550.00
3716350.00        0.81487
         483650.00    3716350.00        0.84210                    483750.00
3716350.00        0.86870
         483850.00    3716350.00        0.89025                    483950.00
3716350.00        0.90478
         484850.00    3716350.00        0.83650                    484950.00
3716350.00        0.82783
         481950.00    3716450.00        0.42324                    482550.00
3716450.00        0.54570
         482650.00    3716450.00        0.57107                    482750.00
3716450.00        0.59848
         482850.00    3716450.00        0.62513                    482950.00
3716450.00        0.66203
         483050.00    3716450.00        0.69926                    483150.00
3716450.00        0.73471
         483450.00    3716450.00        0.84993                    483550.00
3716450.00        0.88665
         483650.00    3716450.00        0.91976                    483750.00
3716450.00        0.95014
         483850.00    3716450.00        0.97874                    483950.00
3716450.00        0.99787
         484050.00    3716450.00        1.01046                    485150.00
3716450.00        0.83492
         482650.00    3716550.00        0.60507                    482750.00
3716550.00        0.63216
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         482850.00    3716550.00        0.66116                          482950.00
3716550.00        0.70743
         483450.00    3716550.00        0.92458                          483550.00
3716550.00        0.97314
         483650.00    3716550.00        1.01233                          483750.00
3716550.00        1.05498
         483850.00    3716550.00        1.08821                          483950.00
3716550.00        1.11421
         484050.00    3716550.00        1.12892                          484950.00
3716550.00        0.94521
         485050.00    3716550.00        0.93282                          485150.00
3716550.00        0.91450
         482850.00    3716650.00        0.70018                          482950.00
3716650.00        0.74838
         483450.00    3716650.00        1.00389                          483550.00
3716650.00        1.06848
         483650.00    3716650.00        1.12843                          483750.00
3716650.00        1.18528
         483850.00    3716650.00        1.22158                          483950.00
3716650.00        1.25811
         484050.00    3716650.00        1.27779                          485250.00
3716650.00        0.90067
         481950.00    3716750.00        0.45089                          482650.00
3716750.00        0.67430
         482750.00    3716750.00        0.71359                          482850.00
3716750.00        0.74326
         482950.00    3716750.00        0.79969                          483050.00
3716750.00        0.85293
         483150.00    3716750.00        0.92155                          483450.00
3716750.00        1.10637
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                   PAGE 530
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
483550.00	3716750.00	1.18961	483650.00	3716750.00	1.28934
483750.00	3716750.00	1.35862	483850.00	3716750.00	1.39189
483950.00	3716750.00	1.43618	484050.00	3716750.00	1.46265
485150.00	3716750.00	1.00490	485250.00	3716750.00	0.94714
485350.00	3716750.00	0.89381	485450.00	3716750.00	0.83902
485550.00	3716750.00	0.79767	485650.00	3716750.00	0.73445
481950.00	3716850.00	0.46189	482050.00	3716850.00	0.48505
482150.00	3716850.00	0.50972	482650.00	3716850.00	0.71011
482750.00	3716850.00	0.75137	482850.00	3716850.00	0.79556
482950.00	3716850.00	0.86026	483050.00	3716850.00	0.93720
483150.00	3716850.00	0.99653	483250.00	3716850.00	1.05720
484050.00	3716850.00	1.74066	485550.00	3716850.00	0.81393
485650.00	3716850.00	0.74913	481950.00	3716950.00	0.47168
482050.00	3716950.00	0.49481	482150.00	3716950.00	0.52301
482250.00	3716950.00	0.55441	482350.00	3716950.00	0.58880
482450.00	3716950.00	0.62799	483150.00	3716950.00	1.07532
483250.00	3716950.00	1.15699	485550.00	3716950.00	0.82110
485650.00	3716950.00	0.75939	481950.00	3717050.00	0.48095
482050.00	3717050.00	0.50609	482150.00		

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3717050.00        0.53615
         482250.00    3717050.00        0.57034                        482350.00
3717050.00        0.60579
         482450.00    3717050.00        0.64648                        482550.00
3717050.00        0.69133
         482650.00    3717050.00        0.74402                        482850.00
3717050.00        0.87739
         482950.00    3717050.00        0.97737                        483250.00
3717050.00        1.30135
         485350.00    3717050.00        0.98760                        485450.00
3717050.00        0.91240
         485550.00    3717050.00        0.83263                        485650.00
3717050.00        0.76644
         486250.00    3717050.00        0.47923                        481950.00
3717150.00        0.48660
         482050.00    3717150.00        0.51757                        482150.00
3717150.00        0.55176
         482250.00    3717150.00        0.58172                        482350.00
3717150.00        0.62041
         482450.00    3717150.00        0.66648                        482550.00
3717150.00        0.71109
         482650.00    3717150.00        0.77244                        482750.00
3717150.00        0.83927
         482850.00    3717150.00        0.91186                        482950.00
3717150.00        1.00543
         483050.00    3717150.00        1.13356                        485350.00
3717150.00        1.01199
         485450.00    3717150.00        0.91997                        485550.00
3717150.00        0.83487
         485650.00    3717150.00        0.76802                        481950.00
3717250.00        0.49642
         482050.00    3717250.00        0.52441                        482150.00
3717250.00        0.55740
         482250.00    3717250.00        0.60064                        482350.00
3717250.00        0.64273
         482450.00    3717250.00        0.68190                        482550.00
3717250.00        0.73354
         482650.00    3717250.00        0.79682                        482750.00
3717250.00        0.87441
         482850.00    3717250.00        0.95561                        482950.00
3717250.00        1.04882
         483050.00    3717250.00        1.17617                        483150.00
3717250.00        1.33939
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
483250.00	3717250.00	1.53260	483350.00	3717250.00	1.76380
483450.00	3717250.00	2.00972	483850.00	3717250.00	3.61850
483950.00	3717250.00	4.05091	486150.00	3717250.00	0.55914
486250.00	3717250.00	0.53068	481950.00	3717350.00	0.50512
482050.00	3717350.00	0.53317	482150.00	3717350.00	0.56506
482250.00	3717350.00	0.60607	482350.00	3717350.00	0.65101
482450.00	3717350.00	0.70029	482550.00	3717350.00	0.75297
482650.00	3717350.00	0.82198	482750.00	3717350.00	0.90507
482850.00	3717350.00	0.99425	482950.00	3717350.00	1.09624
483050.00	3717350.00	1.23612	483150.00	3717350.00	1.41221
483250.00	3717350.00	1.63212	483350.00	3717350.00	1.91236
483450.00	3717350.00	2.25066	483850.00	3717350.00	4.94299

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         483950.00    3717350.00        5.69973                        484050.00
3717350.00        6.12034
         484650.00    3717350.00        2.93707                        484750.00
3717350.00        2.45431
         486050.00    3717350.00        0.58189                        486150.00
3717350.00        0.55055
         486250.00    3717350.00        0.52216                        481950.00
3717450.00        0.51417
         482050.00    3717450.00        0.54376                        482150.00
3717450.00        0.57420
         482250.00    3717450.00        0.61786                        482350.00
3717450.00        0.66003
         482450.00    3717450.00        0.71110                        482750.00
3717450.00        0.93627
         482850.00    3717450.00        1.03026                        482950.00
3717450.00        1.14224
         483050.00    3717450.00        1.29111                        483150.00
3717450.00        1.48598
         483250.00    3717450.00        1.74357                        483350.00
3717450.00        2.08388
         483450.00    3717450.00        2.54231                        483550.00
3717450.00        3.17362
         483850.00    3717450.00        7.01671                        483950.00
3717450.00        8.92105
         484050.00    3717450.00        9.68844                        484550.00
3717450.00        4.09522
         484650.00    3717450.00        3.29970                        484750.00
3717450.00        2.64071
         481950.00    3717550.00        0.52423                        482050.00
3717550.00        0.55589
         482150.00    3717550.00        0.59105                        482250.00
3717550.00        0.62802
         482350.00    3717550.00        0.67423                        482450.00
3717550.00        0.72679
         482750.00    3717550.00        0.95568                        482850.00
3717550.00        1.05586
         482950.00    3717550.00        1.17487                        483050.00
3717550.00        1.33905
         483250.00    3717550.00        1.84908                        483350.00
3717550.00        2.24738
         483450.00    3717550.00        2.85919                        483550.00
3717550.00        3.69763
         483950.00    3717550.00       18.34273                        484050.00
3717550.00       20.28001
         485850.00    3717550.00        0.66246                        485950.00
3717550.00        0.61930
         481950.00    3717650.00        0.51054                        482050.00
3717650.00        0.56009
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         482150.00    3717650.00        0.59829                        482250.00
3717650.00        0.63825
         482350.00    3717650.00        0.68580                        482450.00
3717650.00        0.73862
         482550.00    3717650.00        0.80505                        482650.00
3717650.00        0.87730
         482750.00    3717650.00        0.97055                        482850.00
3717650.00        1.07480
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***       04/16/20
 *** AERMET - VERSION  16216 ***   ***
                          ***       09:53:15

                                    PAGE 532
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                    *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL        ***
                                    INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **

       X-COORD (M)   Y-COORD (M)        CONC                         X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         482950.00    3717650.00        1.20753                        483350.00
3717650.00        2.38700
         484550.00    3717650.00        4.92528                        484650.00
3717650.00        3.63785
         484750.00    3717650.00        2.81014                        484850.00
3717650.00        2.24477
         485150.00    3717650.00        1.35419                        485450.00
3717650.00        0.93077
         485550.00    3717650.00        0.84847                        482250.00
3717750.00        0.64000
         482350.00    3717750.00        0.66716                        482450.00
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```
3717750.00        0.71618
         482550.00    3717750.00        0.78605                    482650.00
3717750.00        0.87102
         482750.00    3717750.00        0.98280                    482850.00
3717750.00        1.08891
         482950.00    3717750.00        1.23179                    484550.00
3717750.00        5.13347
         484650.00    3717750.00        3.71091                    484750.00
3717750.00        2.84310
         484850.00    3717750.00        2.26262                    485150.00
3717750.00        1.35185
         485450.00    3717750.00        0.93080                    485550.00
3717750.00        0.84787
         485650.00    3717750.00        0.77883                    485750.00
3717750.00        0.71576
         485850.00    3717750.00        0.66275                    485950.00
3717750.00        0.61826
         486050.00    3717750.00        0.57991                    482250.00
3717850.00        0.61693
         482650.00    3717850.00        0.84288                    482750.00
3717850.00        0.96067
         482850.00    3717850.00        1.09646                    482950.00
3717850.00        1.23763
         483350.00    3717850.00        2.51225                    483450.00
3717850.00        3.28105
         484550.00    3717850.00        5.37034                    484650.00
3717850.00        3.82440
         484750.00    3717850.00        2.90867                    484850.00
3717850.00        2.30313
         484950.00    3717850.00        1.88470                    485150.00
3717850.00        1.35900
         485250.00    3717850.00        1.18509                    485450.00
3717850.00        0.94385
         485550.00    3717850.00        0.85768                    485650.00
3717850.00        0.78440
         485750.00    3717850.00        0.71955                    485850.00
3717850.00        0.66856
         485950.00    3717850.00        0.62565                    486050.00
3717850.00        0.58402
         481950.00    3717950.00        0.44415                    482250.00
3717950.00        0.59407
         482350.00    3717950.00        0.60297                    482750.00
3717950.00        0.92407
         483350.00    3717950.00        2.48269                    483450.00
3717950.00        3.22671
         483550.00    3717950.00        4.42757                    484550.00
3717950.00        5.66628
         484650.00    3717950.00        4.01605                    484750.00
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3717950.00 3.02402
484850.00 3717950.00 2.38231 484950.00
3717950.00 1.93790
485350.00 3717950.00 1.06637 485450.00
3717950.00 0.95175
485550.00 3717950.00 0.86884 485650.00
3717950.00 0.78861
485750.00 3717950.00 0.72395 485850.00
3717950.00 0.67445
485950.00 3717950.00 0.63143 486050.00
3717950.00 0.59048
481950.00 3718050.00 0.44813 482050.00
3718050.00 0.46436
482750.00 3718050.00 0.90932 482850.00
3718050.00 1.03834
482950.00 3718050.00 1.15655 483050.00
3718050.00 1.33913
483150.00 3718050.00 1.55642 483250.00
3718050.00 1.85573
483350.00 3718050.00 2.32268 483450.00
3718050.00 2.99403

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC

- - - -

```
         484750.00    3718250.00        3.31603                        484850.00
3718250.00        2.65165
         485150.00    3718250.00        1.50613                        485250.00
3718250.00        1.29637
         485650.00    3718250.00        0.82097                        481950.00
3718350.00        0.44565
         482050.00    3718350.00        0.47104                        482150.00
3718350.00        0.48656
         482250.00    3718350.00        0.50306                        482350.00
3718350.00        0.55355
         482450.00    3718350.00        0.61574                        482550.00
3718350.00        0.66915
         482650.00    3718350.00        0.73402                        482750.00
3718350.00        0.80674
         483150.00    3718350.00        1.14169                        483450.00
3718350.00        2.30750
         485250.00    3718350.00        1.33064                        485350.00
3718350.00        1.16385
         485550.00    3718350.00        0.91762                        485650.00
3718350.00        0.84217
         486150.00    3718350.00        0.56190                        486250.00
3718350.00        0.52892
         481950.00    3718450.00        0.43163                        482050.00
3718450.00        0.45936
         482150.00    3718450.00        0.47477                        482250.00
3718450.00        0.49265
         482350.00    3718450.00        0.53418                        482450.00
3718450.00        0.59001
         482550.00    3718450.00        0.64853                        482650.00
3718450.00        0.70781
         482750.00    3718450.00        0.77622                        482850.00
3718450.00        0.82371
         483350.00    3718450.00        1.70294                        484450.00
3718450.00        3.83902
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                   PAGE 534
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                   *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
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L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
485150.00	3718450.00	1.56476	485250.00	3718450.00	1.35208
485350.00	3718450.00	1.19061	485750.00	3718450.00	0.77428
485850.00	3718450.00	0.70545	485950.00	3718450.00	0.64962
486050.00	3718450.00	0.60843	481950.00	3718550.00	0.41627
482050.00	3718550.00	0.44122	482150.00	3718550.00	0.46909
482250.00	3718550.00	0.49356	482350.00	3718550.00	0.52578
482450.00	3718550.00	0.57702	482550.00	3718550.00	0.62658
482650.00	3718550.00	0.67794	482750.00	3718550.00	0.75808
482850.00	3718550.00	0.82176	482950.00	3718550.00	0.88656
483550.00	3718550.00	2.07982	484650.00	3718550.00	2.71600
484750.00	3718550.00	2.49934	484850.00	3718550.00	2.25363
485850.00	3718550.00	0.71942	485950.00	3718550.00	0.66544
482050.00	3718650.00	0.42645	482150.00	3718650.00	0.45618
482250.00	3718650.00	0.49000	482350.00	3718650.00	0.52857
482450.00	3718650.00	0.56372	482550.00	3718650.00	0.60905
482650.00	3718650.00	0.66850	482750.00	3718650.00	0.73584
482850.00	3718650.00	0.81779	482950.00		

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3718650.00        0.91065
         485150.00    3718650.00        1.48335                    485450.00
3718650.00        1.07594
         485550.00    3718650.00        0.96668                    485650.00
3718650.00        0.87094
         485850.00    3718650.00        0.74028                    485950.00
3718650.00        0.67332
         486050.00    3718650.00        0.63087                    482050.00
3718750.00        0.41945
         482150.00    3718750.00        0.44888                    482250.00
3718750.00        0.47572
         482350.00    3718750.00        0.51327                    482450.00
3718750.00        0.55535
         482550.00    3718750.00        0.60262                    482650.00
3718750.00        0.65574
         482750.00    3718750.00        0.72648                    482850.00
3718750.00        0.80804
         482950.00    3718750.00        0.89226                    483050.00
3718750.00        0.99522
         484950.00    3718750.00        1.64931                    485050.00
3718750.00        1.53787
         485150.00    3718750.00        1.41934                    485850.00
3718750.00        0.75267
         485950.00    3718750.00        0.68919                    486050.00
3718750.00        0.63787
         482350.00    3718850.00        0.50575                    482450.00
3718850.00        0.54755
         482550.00    3718850.00        0.59327                    482650.00
3718850.00        0.64771
         482750.00    3718850.00        0.71706                    482850.00
3718850.00        0.79353
         482950.00    3718850.00        0.86838                    483050.00
3718850.00        0.95844
         483150.00    3718850.00        1.02309                    484150.00
3718850.00        1.51357
         484250.00    3718850.00        1.56191                    485350.00
3718850.00        1.12802
         485450.00    3718850.00        1.03668                    485750.00
3718850.00        0.81402
         485850.00    3718850.00        0.75163                    485950.00
3718850.00        0.70061
         486050.00    3718850.00        0.64405                    482450.00
3718950.00        0.54010
         482550.00    3718950.00        0.58849                    482650.00
3718950.00        0.63889
         482750.00    3718950.00        0.70468                    482850.00
3718950.00        0.77021
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
482950.00	3718950.00	0.83943	483050.00	3718950.00	0.90756
483150.00	3718950.00	0.97967	483250.00	3718950.00	1.02464
485750.00	3718950.00	0.82046	485850.00	3718950.00	0.75766
485950.00	3718950.00	0.69858	486050.00	3718950.00	0.65357
482250.00	3719050.00	0.45657	482350.00	3719050.00	0.49442
482450.00	3719050.00	0.53462	482550.00	3719050.00	0.57971
482650.00	3719050.00	0.63282	482850.00	3719050.00	0.74334
482950.00	3719050.00	0.79811	483050.00	3719050.00	0.85714
483150.00	3719050.00	0.91025	483250.00	3719050.00	0.95226
483350.00	3719050.00	0.97447	483450.00	3719050.00	0.98918

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         483550.00    3719050.00        0.99549                    485250.00
3719050.00        1.05194
         485450.00    3719050.00        0.95091                    485550.00
3719050.00        0.89590
         485650.00    3719050.00        0.84724                    485750.00
3719050.00        0.80096
         482350.00    3719150.00        0.49196                    482650.00
3719150.00        0.61839
         482850.00    3719150.00        0.71609                    483050.00
3719150.00        0.80755
         483150.00    3719150.00        0.84570                    483250.00
3719150.00        0.87744
         483350.00    3719150.00        0.89524                    483450.00
3719150.00        0.90446
         483550.00    3719150.00        0.90650                    485250.00
3719150.00        0.97955
         485550.00    3719150.00        0.85884                    485650.00
3719150.00        0.81928
         485950.00    3719150.00        0.69125                    484550.00
3719250.00        0.96988
         484750.00    3719250.00        0.96043                    484850.00
3719250.00        0.95457
         484750.00    3719350.00        0.87395                    484850.00
3719350.00        0.86736
         484950.00    3719350.00        0.85919                    485050.00
3719350.00        0.85161
         485150.00    3719350.00        0.84151                    484250.00
3719450.00        0.79396
         484350.00    3719450.00        0.80512                    484450.00
3719450.00        0.81311
         484550.00    3719450.00        0.81170                    484650.00
3719450.00        0.80594
         484750.00    3719450.00        0.80097                    484850.00
3719450.00        0.79598
         484950.00    3719450.00        0.79204                    485050.00
3719450.00        0.78666
         485150.00    3719450.00        0.77666                    485250.00
3719450.00        0.76883
         485350.00    3719450.00        0.75907                    485450.00
3719450.00        0.74285
         485550.00    3719450.00        0.72806                    484250.00
3719550.00        0.72468
         484350.00    3719550.00        0.73604                    484450.00
3719550.00        0.74632
         484550.00    3719550.00        0.75089                    484650.00
3719550.00        0.74723
         484750.00    3719550.00        0.74042                    484850.00
3719550.00        0.73641
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         484950.00    3719550.00        0.73296                        485050.00
3719550.00        0.72533
         485150.00    3719550.00        0.72023                        485250.00
3719550.00        0.71207
         485350.00    3719550.00        0.70969                        485450.00
3719550.00        0.69821
         485550.00    3719550.00        0.68576                        484450.00
3719850.00        0.60457
         484550.00    3719850.00        0.61003                        484650.00
3719850.00        0.60735
         484350.00    3719950.00        0.56302                        484450.00
3719950.00        0.56324
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                       ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 536
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                         X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
         484550.00    3719950.00        0.56392                        484650.00
3719950.00        0.57187
         483837.50    3717212.50        3.28860                        483862.50
3717212.50        3.35295
         483887.50    3717212.50        3.46246                        483412.50
3717237.50        1.88848
         483812.50    3717237.50        3.37065                        483837.50
```

3717237.50 3.46803
483862.50 3717237.50 3.56504 483887.50
3717237.50 3.68462
483912.50 3717237.50 3.78549 483937.50
3717237.50 3.87086
483412.50 3717262.50 1.93366 483437.50
3717262.50 2.00243
483462.50 3717262.50 2.07238 483812.50
3717262.50 3.54732
483837.50 3717262.50 3.67129 483862.50
3717262.50 3.79370
483887.50 3717262.50 3.93571 483912.50
3717262.50 4.04495
483937.50 3717262.50 4.14420 483962.50
3717262.50 4.25906
483987.50 3717262.50 4.34896 483412.50
3717287.50 1.98110
483437.50 3717287.50 2.05511 483462.50
3717287.50 2.13291
483487.50 3717287.50 2.21399 483812.50
3717287.50 3.78933
483837.50 3717287.50 3.92955 483862.50
3717287.50 4.07150
483887.50 3717287.50 4.22679 483912.50
3717287.50 4.36490
483937.50 3717287.50 4.48740 483962.50
3717287.50 4.60808
483987.50 3717287.50 4.71163 484012.50
3717287.50 4.79630
483412.50 3717312.50 2.03410 483437.50
3717312.50 2.11302
483462.50 3717312.50 2.19640 483487.50
3717312.50 2.28503
483512.50 3717312.50 2.37923 483787.50
3717312.50 3.91961
483812.50 3717312.50 4.08694 483837.50
3717312.50 4.25637
483862.50 3717312.50 4.42541 483887.50
3717312.50 4.59260
483912.50 3717312.50 4.75052 483937.50
3717312.50 4.89028
483962.50 3717312.50 5.02389 483987.50
3717312.50 5.13981
484012.50 3717312.50 5.23402 484037.50
3717312.50 5.30252
484562.50 3717312.50 3.23633 484587.50
3717312.50 3.11173
484612.50 3717312.50 2.98361 484637.50

3717312.50 2.85860
484662.50 3717312.50 2.73420 484687.50
3717312.50 2.61659
484712.50 3717312.50 2.50838 484737.50
3717312.50 2.41023
484762.50 3717312.50 2.31463 483412.50
3717337.50 2.08987
483437.50 3717337.50 2.17525 483462.50
3717337.50 2.26457
483487.50 3717337.50 2.36228 483512.50
3717337.50 2.46634
483537.50 3717337.50 2.58341 483787.50
3717337.50 4.21264
483812.50 3717337.50 4.42400 483837.50
3717337.50 4.62859
483862.50 3717337.50 4.83101 483887.50
3717337.50 5.02909
483912.50 3717337.50 5.21307 483937.50
3717337.50 5.35740
483962.50 3717337.50 5.50758 483987.50
3717337.50 5.64249
484012.50 3717337.50 5.74443 484037.50
3717337.50 5.81264
484562.50 3717337.50 3.38209 484587.50
3717337.50 3.24173

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
484612.50	3717337.50	3.09937	484637.50	3717337.50	2.95753
484662.50	3717337.50	2.82288	484687.50	3717337.50	2.69816
484712.50	3717337.50	2.58110	484737.50	3717337.50	2.47679
484762.50	3717337.50	2.37310	483412.50	3717362.50	2.14510
483437.50	3717362.50	2.23577	483462.50	3717362.50	2.33550
483487.50	3717362.50	2.44322	483512.50	3717362.50	2.55876
483537.50	3717362.50	2.68997	483787.50	3717362.50	4.52510
483812.50	3717362.50	4.78644	483837.50	3717362.50	5.03899
483862.50	3717362.50	5.29422	483887.50	3717362.50	5.54162
483912.50	3717362.50	5.75596	483937.50	3717362.50	5.92512
483962.50	3717362.50	6.06864	483987.50	3717362.50	6.22364
484012.50	3717362.50	6.33952	484037.50	3717362.50	6.41226
484562.50	3717362.50	3.52108	484587.50	3717362.50	3.36515
484612.50	3717362.50	3.20987	484637.50	3717362.50	3.05715
484662.50	3717362.50	2.91099	484687.50	3717362.50	2.76941
484712.50	3717362.50	2.64856	484737.50	3717362.50	2.53699
484762.50	3717362.50	2.42654	484787.50	3717362.50	2.31587
483412.50	3717387.50	2.19781	483437.50	3717387.50	2.30003
483462.50	3717387.50	2.41008	483487.50	3717387.50	2.52702
483512.50	3717387.50	2.65437	483537.50	3717387.50	2.79629
483562.50	3717387.50	2.94654	483787.50	3717387.50	4.86552

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         483812.50    3717387.50        5.16903                          483837.50
3717387.50        5.47651
         483862.50    3717387.50        5.80222                          483887.50
3717387.50        6.11423
         483912.50    3717387.50        6.36364                          483937.50
3717387.50        6.56272
         483962.50    3717387.50        6.73872                          483987.50
3717387.50        6.91234
         484012.50    3717387.50        7.04220                          484037.50
3717387.50        7.12414
         484062.50    3717387.50        7.15512                          484562.50
3717387.50        3.66091
         484587.50    3717387.50        3.48710                          484612.50
3717387.50        3.31908
         484637.50    3717387.50        3.15416                          484662.50
3717387.50        2.99837
         484687.50    3717387.50        2.85161                          484712.50
3717387.50        2.71865
         484737.50    3717387.50        2.59248                          484762.50
3717387.50        2.47110
         484787.50    3717387.50        2.35349                          483412.50
3717412.50        2.25681
         483437.50    3717412.50        2.36803                          483462.50
3717412.50        2.48899
         483487.50    3717412.50        2.61752                          483512.50
3717412.50        2.75613
         483537.50    3717412.50        2.90772                          483562.50
3717412.50        3.07264
         483787.50    3717412.50        5.24239                          483812.50
3717412.50        5.58327
         483837.50    3717412.50        5.94430                          483862.50
3717412.50        6.33107
         483887.50    3717412.50        6.70071                          483912.50
3717412.50        7.02475
         483937.50    3717412.50        7.30073                          483962.50
3717412.50        7.53831
         483987.50    3717412.50        7.74273                          484012.50
3717412.50        7.89143
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 538
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
```

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
484037.50	3717412.50	7.98237	484062.50	3717412.50	8.00250
484487.50	3717412.50	4.39717	484512.50	3717412.50	4.18874
484537.50	3717412.50	3.98795	484562.50	3717412.50	3.79485
484587.50	3717412.50	3.60885	484612.50	3717412.50	3.42935
484637.50	3717412.50	3.25163	484662.50	3717412.50	3.08176
484687.50	3717412.50	2.92969	484712.50	3717412.50	2.78381
484737.50	3717412.50	2.64343	484762.50	3717412.50	2.51279
484787.50	3717412.50	2.38988	483412.50	3717437.50	2.32129
483437.50	3717437.50	2.44092	483462.50	3717437.50	2.57136
483487.50	3717437.50	2.71037	483512.50	3717437.50	2.86029
483537.50	3717437.50	3.02365	483562.50	3717437.50	3.20206
483587.50	3717437.50	3.39322	483837.50	3717437.50	6.46296
483862.50	3717437.50	6.88809	483887.50	3717437.50	7.33038
483912.50	3717437.50	7.79865	483937.50	3717437.50	8.18782
483962.50	3717437.50	8.51333	483987.50		

3717437.50 8.76411
484012.50 3717437.50 8.93807 484037.50
3717437.50 9.03891
484062.50 3717437.50 9.05993 484487.50
3717437.50 4.60723
484512.50 3717437.50 4.36640 484537.50
3717437.50 4.13894
484562.50 3717437.50 3.92496 484587.50
3717437.50 3.72494
484612.50 3717437.50 3.53625 484637.50
3717437.50 3.35103
484662.50 3717437.50 3.17044 484687.50
3717437.50 3.00156
484712.50 3717437.50 2.83999 484737.50
3717437.50 2.69043
484762.50 3717437.50 2.55256 483412.50
3717462.50 2.38573
483437.50 3717462.50 2.51302 483462.50
3717462.50 2.65107
483487.50 3717462.50 2.80158 483512.50
3717462.50 2.96414
483537.50 3717462.50 3.14287 483562.50
3717462.50 3.33603
483587.50 3717462.50 3.54558 483887.50
3717462.50 8.27293
483912.50 3717462.50 8.85245 483937.50
3717462.50 9.34926
483962.50 3717462.50 9.77135 483987.50
3717462.50 10.09461
484012.50 3717462.50 10.31368 484037.50
3717462.50 10.41787
484062.50 3717462.50 10.40462 484487.50
3717462.50 4.81576
484512.50 3717462.50 4.54497 484537.50
3717462.50 4.28706
484562.50 3717462.50 4.04787 484587.50
3717462.50 3.82877
484612.50 3717462.50 3.63065 484637.50
3717462.50 3.42708
484662.50 3717462.50 3.23807 484687.50
3717462.50 3.06728
484712.50 3717462.50 2.88858 484737.50
3717462.50 2.73252
484762.50 3717462.50 2.58934 483412.50
3717487.50 2.44857
483437.50 3717487.50 2.58328 483462.50
3717487.50 2.73071
483487.50 3717487.50 2.89184 483512.50

3717487.50 3.06840
483537.50 3717487.50 3.26212 483562.50
3717487.50 3.47297
*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
483587.50	3717487.50	3.70300	483612.50	3717487.50	3.95412
483912.50	3717487.50	10.21889	483937.50	3717487.50	10.87584
483962.50	3717487.50	11.44579	483987.50	3717487.50	11.89250
484012.50	3717487.50	12.17131	484037.50	3717487.50	12.25866
484062.50	3717487.50	12.16790	484537.50	3717487.50	4.43281
484562.50	3717487.50	4.16695	484587.50	3717487.50	3.92375
484612.50	3717487.50	3.70858	484637.50	3717487.50	3.50617
484662.50	3717487.50	3.29314	484687.50	3717487.50	3.11829

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         484712.50    3717487.50        2.93735                    484737.50
3717487.50        2.77205
         484762.50    3717487.50        2.62320                    483412.50
3717512.50        2.51120
         483437.50    3717512.50        2.66078                    483462.50
3717512.50        2.81960
         483487.50    3717512.50        2.98809                    483512.50
3717512.50        3.17379
         483537.50    3717512.50        3.38204                    483562.50
3717512.50        3.61358
         483587.50    3717512.50        3.86830                    483612.50
3717512.50        4.14641
         483912.50    3717512.50       11.96221                    483937.50
3717512.50       12.91161
         483962.50    3717512.50       13.73626                    483987.50
3717512.50       14.34351
         484012.50    3717512.50       14.70096                    484037.50
3717512.50       14.76861
         484062.50    3717512.50       14.55044                    484537.50
3717512.50        4.57191
         484562.50    3717512.50        4.28143                    484587.50
3717512.50        4.01705
         484612.50    3717512.50        3.78012                    484637.50
3717512.50        3.56433
         484662.50    3717512.50        3.36240                    484687.50
3717512.50        3.17081
         484712.50    3717512.50        2.98560                    484737.50
3717512.50        2.81034
         484762.50    3717512.50        2.65589                    483412.50
3717537.50        2.56946
         483437.50    3717537.50        2.73803                    483462.50
3717537.50        2.91229
         483487.50    3717537.50        3.09157                    483512.50
3717537.50        3.28745
         483537.50    3717537.50        3.50865                    483562.50
3717537.50        3.75625
         483587.50    3717537.50        4.03449                    483612.50
3717537.50        4.34473
         483637.50    3717537.50        4.69277                    483937.50
3717537.50       15.71029
         483962.50    3717537.50       16.95295                    483987.50
3717537.50       17.85438
         484012.50    3717537.50       18.31178                    484037.50
3717537.50       18.27726
         484062.50    3717537.50       17.78071                    483412.50
3717562.50        2.62082
         483437.50    3717562.50        2.79780                    483462.50
3717562.50        2.98483
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         483487.50    3717562.50        3.18262                        483512.50
3717562.50        3.39772
         483537.50    3717562.50        3.63496                        483562.50
3717562.50        3.90278
         483587.50    3717562.50        4.20272                        483612.50
3717562.50        4.54140
         483637.50    3717562.50        4.92695                        483937.50
3717562.50       19.67387
         483962.50    3717562.50       21.78244                        483987.50
3717562.50       23.26717
         484012.50    3717562.50       23.87955                        484037.50
3717562.50       23.47402
         484062.50    3717562.50       22.33287                        483412.50
3717587.50        2.66721
         483437.50    3717587.50        2.84906                        483462.50
3717587.50        3.04731
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 540
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL    ***
                                    INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                   L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                   L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                   L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         483487.50    3717587.50        3.26042                        483512.50
3717587.50        3.49728
         483537.50    3717587.50        3.75766                        483562.50
```

3717587.50 4.04824
483587.50 3717587.50 4.37365 483612.50 3717587.50 4.73642
483637.50 3717587.50 5.15898 484512.50 3717612.50 5.44446
484537.50 3717612.50 5.01425 484562.50 3717612.50 4.63874
484587.50 3717612.50 4.29978 484612.50 3717612.50 3.99710
484637.50 3717612.50 3.72870 484662.50 3717612.50 3.48568
484687.50 3717612.50 3.26689 484712.50 3717612.50 3.06735
484737.50 3717612.50 2.88015 484762.50 3717612.50 2.71033
484787.50 3717612.50 2.55753 484812.50 3717612.50 2.41814
484837.50 3717612.50 2.28309 484862.50 3717612.50 2.16629
484512.50 3717637.50 5.56086 484537.50 3717637.50 5.10016
484562.50 3717637.50 4.69922 484587.50 3717637.50 4.34831
484612.50 3717637.50 4.03599 484637.50 3717637.50 3.75539
484662.50 3717637.50 3.50729 484687.50 3717637.50 3.28245
484712.50 3717637.50 3.07862 484737.50 3717637.50 2.88991
484762.50 3717637.50 2.71826 484787.50 3717637.50 2.56600
484812.50 3717637.50 2.42809 484837.50 3717637.50 2.29903
484862.50 3717637.50 2.17927 484512.50 3717662.50 5.64938
484537.50 3717662.50 5.17105 484562.50 3717662.50 4.75202
484587.50 3717662.50 4.38771 484612.50 3717662.50 4.06577
484637.50 3717662.50 3.77769 484662.50 3717662.50 3.52189
484687.50 3717662.50 3.29671 484712.50 3717662.50 3.09285
484737.50 3717662.50 2.90729 484762.50 3717662.50 2.73505
484787.50 3717662.50 2.59563 484812.50 3717662.50 2.45639
484837.50 3717662.50 2.31576 484862.50

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3717662.50        2.19078
         484512.50    3717687.50        5.73469                          484537.50
3717687.50        5.23185
         484562.50    3717687.50        4.80142                          484587.50
3717687.50        4.42274
         484612.50    3717687.50        4.09024                          484637.50
3717687.50        3.79653
         484662.50    3717687.50        3.53631                          484687.50
3717687.50        3.30861
         484712.50    3717687.50        3.10211                          484737.50
3717687.50        2.91735
         484762.50    3717687.50        2.75546                          484787.50
3717687.50        2.61240
         484812.50    3717687.50        2.47876                          484837.50
3717687.50        2.34123
         484862.50    3717687.50        2.20135                          484512.50
3717712.50        5.82315
         484537.50    3717712.50        5.29434                          484562.50
3717712.50        4.84214
         484587.50    3717712.50        4.45406                          484612.50
3717712.50        4.11524
         484637.50    3717712.50        3.81727                          484662.50
3717712.50        3.55239
         484687.50    3717712.50        3.31852                          484712.50
3717712.50        3.10869
         484737.50    3717712.50        2.92175                          484762.50
3717712.50        2.75431
         484787.50    3717712.50        2.60245                          484812.50
3717712.50        2.46714
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 541
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
484837.50	3717712.50	2.33786	484862.50	3717712.50	2.20893
484512.50	3717737.50	5.88056	484537.50	3717737.50	5.34593
484562.50	3717737.50	4.88710	484587.50	3717737.50	4.49006
484612.50	3717737.50	4.14415	484637.50	3717737.50	3.83917
484662.50	3717737.50	3.56868	484687.50	3717737.50	3.32832
484712.50	3717737.50	3.11492	484737.50	3717737.50	2.92569
484762.50	3717737.50	2.75566	484787.50	3717737.50	2.59916
484812.50	3717737.50	2.45618	484837.50	3717737.50	2.32584
484862.50	3717737.50	2.20650	484512.50	3717762.50	5.94711
484537.50	3717762.50	5.40429	484562.50	3717762.50	4.93566
484587.50	3717762.50	4.53399	484612.50	3717762.50	4.17833
484637.50	3717762.50	3.86342	484662.50	3717762.50	3.58808
484687.50	3717762.50	3.34300	484712.50	3717762.50	3.12667
484737.50	3717762.50	2.93480	484762.50	3717762.50	2.76377
484787.50	3717762.50	2.60431	484812.50	3717762.50	2.45570
484837.50	3717762.50	2.32208	484862.50	3717762.50	2.20177
484512.50	3717787.50	6.01293	484537.50	3717787.50	5.46234
484562.50	3717787.50	4.99874	484587.50	3717787.50	4.58263
484612.50	3717787.50	4.21256	484637.50	3717787.50	3.89110

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         484662.50    3717787.50        3.61052                    484687.50
3717787.50        3.36352
         484712.50    3717787.50        3.14517                    484737.50
3717787.50        2.95295
         484762.50    3717787.50        2.77680                    484787.50
3717787.50        2.61509
         484812.50    3717787.50        2.46489                    484837.50
3717787.50        2.32627
         484862.50    3717787.50        2.20622                    483412.50
3717812.50        2.94315
         483437.50    3717812.50        3.15472                    483462.50
3717812.50        3.39458
         483487.50    3717812.50        3.67052                    484512.50
3717812.50        6.08318
         484537.50    3717812.50        5.53977                    484562.50
3717812.50        5.06001
         484587.50    3717812.50        4.63346                    484612.50
3717812.50        4.25082
         484637.50    3717812.50        3.91957                    484662.50
3717812.50        3.63550
         484687.50    3717812.50        3.38654                    484712.50
3717812.50        3.16678
         484737.50    3717812.50        2.97057                    484762.50
3717812.50        2.79328
         484787.50    3717812.50        2.62913                    484812.50
3717812.50        2.47885
         484837.50    3717812.50        2.34105                    484862.50
3717812.50        2.21945
         483412.50    3717837.50        2.94971                    483437.50
3717837.50        3.16218
         483462.50    3717837.50        3.40345                    483487.50
3717837.50        3.68166
         483512.50    3717837.50        4.00240                    484512.50
3717837.50        6.15685
         484537.50    3717837.50        5.59622                    484562.50
3717837.50        5.10652
         484587.50    3717837.50        4.67788                    484612.50
3717837.50        4.29240
         484637.50    3717837.50        3.95558                    484662.50
3717837.50        3.66597
         484687.50    3717837.50        3.41425                    484712.50
3717837.50        3.19246
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
484737.50	3717837.50	2.99214	484762.50	3717837.50	2.81076
484787.50	3717837.50	2.64624	484812.50	3717837.50	2.49530
484837.50	3717837.50	2.35890	484862.50	3717837.50	2.23408
483412.50	3717862.50	2.95036	483437.50	3717862.50	3.16414
483462.50	3717862.50	3.40871	483487.50	3717862.50	3.68831
483512.50	3717862.50	4.00696	484512.50	3717862.50	6.22784
484537.50	3717862.50	5.65615	484562.50	3717862.50	5.15758
484587.50	3717862.50	4.72251	484612.50	3717862.50	4.33647
484637.50	3717862.50	3.99646	484662.50	3717862.50	3.70186
484687.50	3717862.50	3.44552	484712.50	3717862.50	3.21897
484737.50	3717862.50	3.01413	484762.50	3717862.50	2.83037
484787.50	3717862.50	2.66493	484812.50	3717862.50	2.51388
484837.50	3717862.50	2.37550	484862.50		

3717862.50 2.25086
483412.50 3717887.50 2.94565 483437.50
3717887.50 3.16037
483462.50 3717887.50 3.40821 483487.50
3717887.50 3.68710
483512.50 3717887.50 4.00426 483537.50
3717887.50 4.36928
484512.50 3717887.50 6.31579 484537.50
3717887.50 5.71801
484562.50 3717887.50 5.21173 484587.50
3717887.50 4.77109
484612.50 3717887.50 4.38284 484637.50
3717887.50 4.04314
484662.50 3717887.50 3.74292 484687.50
3717887.50 3.48238
484712.50 3717887.50 3.24970 484737.50
3717887.50 3.04068
484762.50 3717887.50 2.85382 484787.50
3717887.50 2.68581
484812.50 3717887.50 2.53398 484837.50
3717887.50 2.39432
484862.50 3717887.50 2.26776 483412.50
3717912.50 2.93450
483437.50 3717912.50 3.14640 483462.50
3717912.50 3.38925
483487.50 3717912.50 3.64451 483512.50
3717912.50 3.94697
483537.50 3717912.50 4.30747 483562.50
3717912.50 4.74860
484512.50 3717912.50 6.41494 484537.50
3717912.50 5.80305
484562.50 3717912.50 5.28175 484587.50
3717912.50 4.82990
484612.50 3717912.50 4.43847 484637.50
3717912.50 4.09110
484662.50 3717912.50 3.78947 484687.50
3717912.50 3.52098
484712.50 3717912.50 3.28359 484737.50
3717912.50 3.07172
484762.50 3717912.50 2.88151 484787.50
3717912.50 2.71010
484812.50 3717912.50 2.55558 484837.50
3717912.50 2.41545
484862.50 3717912.50 2.28577 483412.50
3717937.50 2.91755
483437.50 3717937.50 3.12614 483462.50
3717937.50 3.36222
483487.50 3717937.50 3.62042 483512.50

3717937.50 3.91069
483537.50 3717937.50 4.25968 483562.50 3717937.50 4.66337
483587.50 3717937.50 5.17974 484512.50 3717937.50 6.52135
484537.50 3717937.50 5.89831 484562.50 3717937.50 5.36195

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
484587.50	3717937.50	4.90220	484612.50	3717937.50	4.49919
484637.50	3717937.50	4.14708	484662.50	3717937.50	3.83731
484687.50	3717937.50	3.56548	484712.50	3717937.50	3.32248
484737.50	3717937.50	3.10582	484762.50	3717937.50	2.91265
484787.50	3717937.50	2.73795	484812.50	3717937.50	2.58012
484837.50	3717937.50	2.43749	484862.50	3717937.50	2.30716

```
         483412.50    3717962.50        2.89447                    483437.50
3717962.50        3.09937
         483462.50    3717962.50        3.33074                    483487.50
3717962.50        3.59344
         483512.50    3717962.50        3.88824                    483537.50
3717962.50        4.22879
         483562.50    3717962.50        4.63374                    483587.50
3717962.50        5.09645
         483612.50    3717962.50        5.62826                    484512.50
3717962.50        6.63164
         484537.50    3717962.50        5.99679                    484562.50
3717962.50        5.44954
         484587.50    3717962.50        4.97874                    484612.50
3717962.50        4.56696
         484637.50    3717962.50        4.20807                    484662.50
3717962.50        3.89118
         484687.50    3717962.50        3.61358                    484712.50
3717962.50        3.36593
         484737.50    3717962.50        3.14322                    484762.50
3717962.50        2.94523
         484787.50    3717962.50        2.76755                    484812.50
3717962.50        2.60697
         484837.50    3717962.50        2.46123                    484862.50
3717962.50        2.32863
         483412.50    3717987.50        2.85454                    483437.50
3717987.50        3.05392
         483462.50    3717987.50        3.27837                    483487.50
3717987.50        3.54146
         483512.50    3717987.50        3.83942                    483537.50
3717987.50        4.17456
         483562.50    3717987.50        4.55814                    483587.50
3717987.50        4.99958
         483612.50    3717987.50        5.51519                    484512.50
3717987.50        6.73767
         484537.50    3717987.50        6.09403                    484562.50
3717987.50        5.54018
         484587.50    3717987.50        5.05816                    484612.50
3717987.50        4.64032
         484637.50    3717987.50        4.27061                    484662.50
3717987.50        3.94885
         484687.50    3717987.50        3.66070                    484712.50
3717987.50        3.40962
         484737.50    3717987.50        3.18450                    484762.50
3717987.50        2.98156
         484787.50    3717987.50        2.79980                    484812.50
3717987.50        2.63577
         484837.50    3717987.50        2.48753                    484862.50
3717987.50        2.35293
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```
         483412.50    3718012.50        2.79420                        483437.50
3718012.50        2.99130
         483462.50    3718012.50        3.20613                        483487.50
3718012.50        3.46155
         483512.50    3718012.50        3.76146                        483537.50
3718012.50        4.09954
         483562.50    3718012.50        4.47589                        483587.50
3718012.50        4.90452
         483612.50    3718012.50        5.40470                        483637.50
3718012.50        5.97157
         484512.50    3718012.50        6.83044                        484537.50
3718012.50        6.18887
         484562.50    3718012.50        5.62871                        484587.50
3718012.50        5.13884
         484612.50    3718012.50        4.70924                        484637.50
3718012.50        4.33124
         484662.50    3718012.50        4.00188                        484687.50
3718012.50        3.71215
         484712.50    3718012.50        3.45563                        484737.50
3718012.50        3.22598
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                   PAGE 544
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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- -

484762.50	3718012.50	3.01980	484787.50	3718012.50	2.83419
484812.50	3718012.50	2.66743	484837.50	3718012.50	2.51599
484862.50	3718012.50	2.37905	483412.50	3718037.50	2.73473
483437.50	3718037.50	2.92440	483462.50	3718037.50	3.13523
483487.50	3718037.50	3.38346	483512.50	3718037.50	3.66670
483537.50	3718037.50	4.00770	483562.50	3718037.50	4.38487
483587.50	3718037.50	4.79116	483612.50	3718037.50	5.23944
483637.50	3718037.50	5.82813	483662.50	3718037.50	6.47696
484512.50	3718037.50	6.90187	484537.50	3718037.50	6.26088
484562.50	3718037.50	5.69988	484587.50	3718037.50	5.20705
484612.50	3718037.50	4.77206	484637.50	3718037.50	4.39169
484662.50	3718037.50	4.05496	484687.50	3718037.50	3.76240
484712.50	3718037.50	3.49902	484737.50	3718037.50	3.26752
484762.50	3718037.50	3.05725	484787.50	3718037.50	2.86972
484812.50	3718037.50	2.69943	484837.50	3718037.50	2.54525
484862.50	3718037.50	2.40515	483412.50	3718062.50	2.67437
483437.50	3718062.50	2.85845	483462.50	3718062.50	3.06693
483487.50	3718062.50	3.30383	483512.50	3718062.50	3.58242
483537.50	3718062.50	3.90523	483562.50	3718062.50	4.28158
483587.50	3718062.50	4.64182	483612.50	3718062.50	5.08371
483637.50	3718062.50	5.64648	483662.50	3718062.50	6.25776
484512.50	3718062.50	6.93409	484537.50	3718062.50	6.30532
484562.50	3718062.50	5.75027	484587.50	3718062.50	5.25667
484612.50	3718062.50	4.82442	484637.50		

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3718062.50        4.43899
         484662.50    3718062.50        4.10158                          484687.50
3718062.50        3.80406
         483412.50    3718087.50        2.60298                          483437.50
3718087.50        2.77805
         483462.50    3718087.50        2.98712                          483487.50
3718087.50        3.22742
         483512.50    3718087.50        3.49101                          483537.50
3718087.50        3.80463
         483562.50    3718087.50        4.14667                          483587.50
3718087.50        4.51334
         483612.50    3718087.50        4.96894                          483637.50
3718087.50        5.45333
         483662.50    3718087.50        5.96291                          484512.50
3718087.50        6.91814
         484537.50    3718087.50        6.31102                          484562.50
3718087.50        5.77273
         484587.50    3718087.50        5.29213                          484612.50
3718087.50        4.86442
         484637.50    3718087.50        4.48253                          484662.50
3718087.50        4.14217
         484687.50    3718087.50        3.84270                          483412.50
3718112.50        2.53731
         483437.50    3718112.50        2.71077                          483462.50
3718112.50        2.92173
         483487.50    3718112.50        3.15132                          483512.50
3718112.50        3.40152
         483537.50    3718112.50        3.68414                          483562.50
3718112.50        3.99835
         483587.50    3718112.50        4.39365                          483612.50
3718112.50        4.78698
         483637.50    3718112.50        5.22048                          483662.50
3718112.50        5.70398
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 545
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                L0000014    , L0000015    , L0000016    , L0000017    , L0000018
```

, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
483687.50	3718112.50	6.27003	484512.50	3718112.50	6.85960
484537.50	3718112.50	6.28061	484562.50	3718112.50	5.76452
484587.50	3718112.50	5.29969	484612.50	3718112.50	4.88361
484637.50	3718112.50	4.50771	484662.50	3718112.50	4.17340
484687.50	3718112.50	3.87485	483412.50	3718137.50	2.49989
483437.50	3718137.50	2.66559	483462.50	3718137.50	2.86870
483487.50	3718137.50	3.07822	483512.50	3718137.50	3.31265
483537.50	3718137.50	3.56674	483562.50	3718137.50	3.85726
483587.50	3718137.50	4.18864	483612.50	3718137.50	4.56225
483637.50	3718137.50	4.97607	483662.50	3718137.50	5.45863
483687.50	3718137.50	5.98987	484512.50	3718137.50	6.75884
484537.50	3718137.50	6.21608	484562.50	3718137.50	5.72864
484587.50	3718137.50	5.28777	484612.50	3718137.50	4.88470
484637.50	3718137.50	4.51998	484662.50	3718137.50	4.19393
484687.50	3718137.50	3.90087	483412.50	3718162.50	2.47188
483437.50	3718162.50	2.62915	483462.50	3718162.50	2.81063
483487.50	3718162.50	3.00865	483512.50	3718162.50	3.23178

```
         483537.50    3718162.50        3.47793                    483562.50
3718162.50        3.73829
         483587.50    3718162.50        4.03390                    483612.50
3718162.50        4.37453
         483637.50    3718162.50        4.78151                    483662.50
3718162.50        5.22074
         483687.50    3718162.50        5.71185                    484512.50
3718162.50        6.61225
         484537.50    3718162.50        6.11730                    484562.50
3718162.50        5.66030
         484587.50    3718162.50        5.24417                    484612.50
3718162.50        4.86289
         484637.50    3718162.50        4.51551                    484662.50
3718162.50        4.20064
         484687.50    3718162.50        3.91607                    484712.50
3718162.50        3.65704
         484737.50    3718162.50        3.42264                    484762.50
3718162.50        3.20851
         484787.50    3718162.50        3.01304                    484812.50
3718162.50        2.83573
         484837.50    3718162.50        2.67273                    484862.50
3718162.50        2.52267
         483412.50    3718187.50        2.43146                    483437.50
3718187.50        2.56963
         483462.50    3718187.50        2.74970                    483487.50
3718187.50        2.94512
         483512.50    3718187.50        3.15747                    483537.50
3718187.50        3.40067
         483562.50    3718187.50        3.64267                    484512.50
3718187.50        6.42642
         484537.50    3718187.50        5.97780                    484562.50
3718187.50        5.56262
         484587.50    3718187.50        5.17791                    484612.50
3718187.50        4.81987
         484637.50    3718187.50        4.49157                    484662.50
3718187.50        4.18977
         484687.50    3718187.50        3.91535                    484712.50
3718187.50        3.66470
         484737.50    3718187.50        3.43458                    484762.50
3718187.50        3.22426
         484787.50    3718187.50        3.03192                    484812.50
3718187.50        2.85533
         484837.50    3718187.50        2.69301                    484862.50
3718187.50        2.54695
         484162.50    3718212.50       10.70115                    484187.50
3718212.50       10.74003
```

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                            *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                            INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                 L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                 L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                 L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF PM_10   IN MICROGRAMS/M**3
                 **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 - - -

3718237.50 4.37872
484662.50 3718237.50 4.11344 484687.50
3718237.50 3.86642
484712.50 3718237.50 3.63698 484737.50
3718237.50 3.42477
484762.50 3718237.50 3.22687 484787.50
3718237.50 3.04390
484812.50 3718237.50 2.87557 484837.50
3718237.50 2.72206
484862.50 3718237.50 2.57880 483412.50
3718262.50 2.26034
483437.50 3718262.50 2.38974 484137.50
3718262.50 8.08384
484162.50 3718262.50 8.16574 484212.50
3718262.50 8.25222
484512.50 3718262.50 5.70256 484537.50
3718262.50 5.40365
484562.50 3718262.50 5.11054 484587.50
3718262.50 4.82670
484612.50 3718262.50 4.55398 484637.50
3718262.50 4.29445
484662.50 3718262.50 4.04877 484687.50
3718262.50 3.81654
484712.50 3718262.50 3.60188 484737.50
3718262.50 3.40093
484762.50 3718262.50 3.21298 484787.50
3718262.50 3.03638
484812.50 3718262.50 2.87444 484837.50
3718262.50 2.72397
484862.50 3718262.50 2.58400 483412.50
3718287.50 2.23045
483437.50 3718287.50 2.34821 484212.50
3718287.50 7.30085
484512.50 3718287.50 5.42717 484537.50
3718287.50 5.17372
484562.50 3718287.50 4.91903 484587.50
3718287.50 4.66958
484612.50 3718287.50 4.42682 484637.50
3718287.50 4.19281
484662.50 3718287.50 3.96862 484687.50
3718287.50 3.75294
484712.50 3718287.50 3.55192 484737.50
3718287.50 3.36354
484762.50 3718287.50 3.18605 484787.50
3718287.50 3.01920
484812.50 3718287.50 2.86259 484837.50
3718287.50 2.71721
484862.50 3718287.50 2.58189 483412.50

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3718312.50        2.17676
         483437.50    3718312.50        2.28549                        484187.50
3718312.50        6.47410
         483412.50    3718337.50        2.13718                        483437.50
3718337.50        2.24995
         484187.50    3718337.50        5.80379                        483412.50
3718412.50        2.00203
         483437.50    3718412.50        2.12633                        483412.50
3718437.50        1.95135
         483437.50    3718437.50        2.07043                        484462.50
3718462.50        3.69805
```



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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                   L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                   L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                   L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                      ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         484487.50    3718462.50        3.65608                        484462.50
3718487.50        3.45685
         484487.50    3718487.50        3.42418
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: EQUIP ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
481950.00	3715450.00	3.64110	(14010909)	482050.00	3715450.00	3.52735	(14010909)
482150.00	3715450.00	3.50407	(16051108)	482250.00	3715450.00	3.82314	(16051108)
482350.00	3715450.00	4.00329	(16051108)	482450.00	3715450.00	3.98853	(12012316)
482550.00	3715450.00	4.96248	(12012316)	482650.00	3715450.00	5.89641	(12012316)
482750.00	3715450.00	6.65488	(12012316)	482850.00	3715450.00	7.09746	(12012316)
482950.00	3715450.00	7.06822	(12012316)	483050.00	3715450.00	6.60367	(12012316)
483150.00	3715450.00	5.71885	(12012316)	483250.00	3715450.00	4.56912	(12012316)
483350.00	3715450.00	4.33323	(12021708)	483450.00	3715450.00	4.66780	(12020608)
483550.00	3715450.00	5.34146	(12020608)	483650.00	3715450.00	5.86362	(12020608)
483750.00	3715450.00	6.34873	(12020608)	483850.00	3715450.00	6.65516	(12020608)
483950.00	3715450.00	6.68667	(12020608)	484050.00	3715450.00	6.44717	(12020608)
484150.00	3715450.00	6.11316	(12110208)	484250.00			

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3715450.00        6.55814  (12110208)
        484350.00   3715450.00        6.22935  (12110208)                484450.00
3715450.00        5.23399  (12110208)
        481950.00   3715550.00        3.79728  (14010909)                482050.00
3715550.00        3.75656  (14010909)
        482150.00   3715550.00        3.60363  (14010909)                482250.00
3715550.00        3.72660  (16051108)
        482350.00   3715550.00        3.98670  (16051108)                482550.00
3715550.00        4.52684  (12012316)
        482650.00   3715550.00        5.57552  (12012316)                482750.00
3715550.00        6.49392  (12012316)
        482850.00   3715550.00        7.13882  (12012316)                482950.00
3715550.00        7.38862  (12012316)
        483050.00   3715550.00        7.13377  (12012316)                483150.00
3715550.00        6.36421  (12012316)
        483250.00   3715550.00        5.22613  (12012316)                483350.00
3715550.00        4.65801  (12021708)
        483450.00   3715550.00        4.81450  (12020608)                483550.00
3715550.00        5.55723  (12020608)
        483650.00   3715550.00        6.20371  (12020608)                483750.00
3715550.00        6.68716  (12020608)
        483850.00   3715550.00        7.09808  (12020608)                483950.00
3715550.00        7.15468  (12020608)
        484050.00   3715550.00        6.93852  (12020608)                484250.00
3715550.00        7.02943  (12110208)
        484350.00   3715550.00        6.53824  (12110208)                484450.00
3715550.00        5.36678  (12110208)
        484550.00   3715550.00        5.27056  (16112908)                484950.00
3715550.00       35.86505  (15012908)
        485050.00   3715550.00       36.46461  (13010908)                481950.00
3715650.00        3.90674  (14010909)
        482050.00   3715650.00        3.93276  (14010909)                482150.00
3715650.00        3.88222  (14010909)
        482250.00   3715650.00        3.72242  (14010909)                482350.00
3715650.00        3.91279  (16051108)
        482450.00   3715650.00        4.18850  (16051108)                482650.00
3715650.00        5.15102  (12012316)
        482750.00   3715650.00        6.26356  (12012316)                482850.00
3715650.00        7.13112  (12012316)
        482950.00   3715650.00        7.58556  (12012316)                483050.00
3715650.00        7.58023  (12012316)
        483150.00   3715650.00        7.01478  (12012316)                483250.00
3715650.00        5.94944  (12012316)
        483350.00   3715650.00        5.06466  (12021708)                483450.00
3715650.00        5.00152  (12020608)
        483550.00   3715650.00        5.83929  (12020608)                483650.00
3715650.00        6.49601  (12020608)
        483750.00   3715650.00        7.17652  (12020608)                483850.00
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3715650.00 7.40838 (12020608)
484050.00 3715650.00 7.64606 (12020608) 484150.00
3715650.00 7.25302 (12020608)
484350.00 3715650.00 7.16862 (12110208) 484450.00
3715650.00 6.90481 (12110208)
484550.00 3715650.00 5.49805 (12110208) 484650.00
3715650.00 5.58142 (13120908)
484750.00 3715650.00 6.22237 (13120908) 485050.00
3715650.00 6.85826 (14011408)
*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: EQUIP ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
484950.00	3715650.00	8.37425	(14011408)	485050.00	3715650.00	8.45499	(14011408)
481950.00	3715750.00	3.94339	(14010909)	482050.00	3715750.00	4.05104	(14010909)
482150.00	3715750.00	4.05364	(14010909)	482250.00	3715750.00	3.97334	(14010909)
482350.00	3715750.00	3.82919	(14010909)	482450.00	3715750.00	4.16366	(16051108)
482550.00	3715750.00	4.42856	(16051108)	482750.00	3715750.00	5.84951	(12012316)

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        482850.00   3715750.00        7.02346  (12012316)              482950.00
3715750.00        7.75000  (12012316)
        483050.00   3715750.00        8.02966  (12012316)              483150.00
3715750.00        7.69549  (12012316)
        483250.00   3715750.00        6.71663  (12012316)              483350.00
3715750.00        5.47071  (12021708)
        483450.00   3715750.00        5.26196  (12021708)              483550.00
3715750.00        6.11882  (12020608)
        483650.00   3715750.00        6.88804  (12020608)              483750.00
3715750.00        7.59114  (12020608)
        483850.00   3715750.00        7.97569  (12020608)              483950.00
3715750.00        8.08647  (12020608)
        484050.00   3715750.00        7.89367  (12020608)              484150.00
3715750.00        7.82111  (12110208)
        484250.00   3715750.00        8.07991  (12110208)              484550.00
3715750.00        5.98262  (13120908)
        484650.00   3715750.00        6.54430  (13120908)              484750.00
3715750.00        7.15000  (14011408)
        484850.00   3715750.00        7.68527  (14011408)              484950.00
3715750.00        8.08317  (14011408)
        485050.00   3715750.00        8.18489  (14011408)              481950.00
3715850.00        3.91718  (14010909)
        482050.00   3715850.00        4.10935  (14010909)              482150.00
3715850.00        4.18237  (14010909)
        482250.00   3715850.00        4.23023  (14010909)              482350.00
3715850.00        4.14327  (14010909)
        482450.00   3715850.00        4.03744  (16051108)              482550.00
3715850.00        4.43044  (16051108)
        482650.00   3715850.00        4.65158  (16051108)              482750.00
3715850.00        5.38221  (12012316)
        482850.00   3715850.00        6.68901  (12012316)              482950.00
3715850.00        7.75956  (12012316)
        483050.00   3715850.00        8.33331  (12012316)              483150.00
3715850.00        8.31848  (12012316)
        483350.00   3715850.00        6.19623  (12012316)              483450.00
3715850.00        5.76571  (12021708)
        483550.00   3715850.00        6.39262  (12020608)              483650.00
3715850.00        7.31436  (12020608)
        483750.00   3715850.00        8.22471  (12020608)              483850.00
3715850.00        8.66444  (12020608)
        483950.00   3715850.00        8.66419  (12020608)              484050.00
3715850.00        8.52418  (12020608)
        484150.00   3715850.00        8.57573  (12110208)              484250.00
3715850.00        8.73157  (12110208)
        484550.00   3715850.00        6.70620  (13120908)              484650.00
3715850.00        7.10492  (13120908)
        484750.00   3715850.00        7.70880  (14011408)              484850.00
3715850.00        8.16312  (14011408)
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        485150.00   3715850.00        8.15482  (12021608)               485250.00
3715850.00        8.31544  (13112216)
        481950.00   3715950.00        3.80571  (14010909)               482050.00
3715950.00        4.04690  (14010909)
        482150.00   3715950.00        4.25596  (14010909)               482250.00
3715950.00        4.39874  (14010909)
        482350.00   3715950.00        4.41439  (14010909)               482450.00
3715950.00        4.31383  (14010909)
        482550.00   3715950.00        4.32882  (16051108)               482650.00
3715950.00        4.71083  (16051108)
        482750.00   3715950.00        4.87375  (16051108)               482850.00
3715950.00        6.20083  (12012316)
        482950.00   3715950.00        7.58630  (12012316)               483050.00
3715950.00        8.56399  (12012316)
        483350.00   3715950.00        7.15214  (12012316)               483450.00
3715950.00        6.37307  (12021708)
        483550.00   3715950.00        6.67161  (12020608)               483650.00
3715950.00        7.75805  (12020608)
        483750.00   3715950.00        8.64070  (12020608)               483850.00
3715950.00        9.42346  (12020608)
        483950.00   3715950.00        9.31819  (12020608)               484050.00
3715950.00        9.14819  (12020608)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***        09:53:15

                                    PAGE 550
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  EQUIP    ***
                                    INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
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Y-COORD (M)		CONC	(YYMMDDHH)		
484150.00	3715950.00	9.45820	(12110208)	484250.00	3715950.00	9.46897	(12110208)
484850.00	3715950.00	8.79467	(14011408)	485150.00	3715950.00	8.50212	(12021608)
485250.00	3715950.00	8.94790	(16020808)	481950.00	3716050.00	3.80769	(14021108)
482050.00	3716050.00	3.93441	(14010909)	482150.00	3716050.00	4.22967	(14010909)
482250.00	3716050.00	4.46325	(14010909)	482350.00	3716050.00	4.58990	(14010909)
482450.00	3716050.00	4.60758	(14010909)	482550.00	3716050.00	4.50493	(14010909)
482650.00	3716050.00	4.65051	(16051108)	482750.00	3716050.00	5.01232	(16051108)
482850.00	3716050.00	5.59343	(12012316)	482950.00	3716050.00	7.18062	(12012316)
483050.00	3716050.00	8.53876	(12012316)	483150.00	3716050.00	9.28945	(12012316)
483350.00	3716050.00	8.19785	(12012316)	483450.00	3716050.00	6.94901	(12021708)
483550.00	3716050.00	7.02397	(12020608)	483650.00	3716050.00	8.18754	(12020608)
483750.00	3716050.00	9.39062	(12020608)	483850.00	3716050.00	10.14727	(12020608)
483950.00	3716050.00	10.25279	(12020608)	484050.00	3716050.00	9.82736	(12020608)
484150.00	3716050.00	10.46818	(12110208)	484250.00	3716050.00	10.27539	(12110208)
484450.00	3716050.00	7.33323	(13120908)	484750.00	3716050.00	9.27777	(14011408)
484850.00	3716050.00	9.45068	(14011408)	485050.00	3716050.00	9.00532	(12021608)
485150.00	3716050.00	8.88156	(13112216)	485250.00	3716050.00	9.58300	(16120208)
485350.00	3716050.00	9.52549	(16120208)	485450.00	3716050.00	9.99468	(16120208)
481950.00	3716150.00	4.15269	(14021108)	482050.00	3716150.00	4.02475	(14021108)
482150.00	3716150.00	4.10222	(14010909)	482250.00	3716150.00	4.42705	(14010909)
482350.00	3716150.00	4.68013	(14010909)	482450.00	3716150.00	4.81657	(14010909)
482550.00	3716150.00	4.82647	(14010909)	482650.00	3716150.00	4.69697	(14010909)
482750.00	3716150.00	5.01604	(16051108)	482850.00			

3716150.00 5.36504 (16051108)
482950.00 3716150.00 6.60184 (12012316) 483050.00
3716150.00 8.31306 (12012316)
483150.00 3716150.00 9.54967 (12012316) 483450.00
3716150.00 7.71145 (12012316)
483550.00 3716150.00 7.47648 (12021708) 483650.00
3716150.00 8.73822 (12020608)
483750.00 3716150.00 10.12130 (12020608) 483850.00
3716150.00 10.98579 (12020608)
483950.00 3716150.00 11.26797 (12020608) 484150.00
3716150.00 11.63609 (12110208)
484250.00 3716150.00 11.18633 (12110208) 484350.00
3716150.00 8.89806 (12110208)
484450.00 3716150.00 8.34423 (13120908) 484850.00
3716150.00 10.13264 (14011408)
484950.00 3716150.00 9.74380 (14011408) 485150.00
3716150.00 9.33065 (16020808)
485250.00 3716150.00 9.69655 (16120208) 485350.00
3716150.00 10.07508 (16120208)
485450.00 3716150.00 10.29306 (16120208) 481950.00
3716250.00 4.40692 (14021108)
482050.00 3716250.00 4.38446 (14021108) 482150.00
3716250.00 4.27348 (14021108)
482250.00 3716250.00 4.28450 (14010909) 482350.00
3716250.00 4.63553 (14010909)
482450.00 3716250.00 4.91013 (14010909) 482550.00
3716250.00 5.06638 (14010909)
482650.00 3716250.00 5.07239 (14010909) 482750.00
3716250.00 4.90790 (14010909)
482850.00 3716250.00 5.45167 (16051108) 482950.00
3716250.00 5.84500 (12012316)
483050.00 3716250.00 7.82640 (12012316) 483150.00
3716250.00 9.57886 (12012316)
483450.00 3716250.00 9.08456 (12012316) 483550.00
3716250.00 8.27060 (12021708)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: EQUIP ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010

, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
483650.00	3716250.00	9.37731	(12020608)	483750.00	3716250.00	10.91075	(12020608)
483850.00	3716250.00	11.96272	(12020608)	483950.00	3716250.00	12.24641	(12020608)
484150.00	3716250.00	13.07003	(12110208)	484850.00	3716250.00	11.05494	(14011408)
484950.00	3716250.00	10.64910	(12021608)	485050.00	3716250.00	9.85277	(16020808)
485150.00	3716250.00	10.17096	(16120208)	485250.00	3716250.00	10.59886	(16120208)
485350.00	3716250.00	10.84295	(16120208)	481950.00	3716350.00	4.56120	(14021108)
482050.00	3716350.00	4.64689	(14021108)	482150.00	3716350.00	4.63922	(14021108)
482250.00	3716350.00	4.56494	(14021108)	482350.00	3716350.00	4.48439	(14010909)
482450.00	3716350.00	4.87187	(14010909)	482550.00	3716350.00	5.17763	(14010909)
482650.00	3716350.00	5.35231	(14010909)	482750.00	3716350.00	5.35521	(14010909)
482850.00	3716350.00	5.37677	(14112608)	482950.00	3716350.00	5.96000	(16051108)
483050.00	3716350.00	7.10796	(12012316)	483150.00	3716350.00	9.30886	(12012316)
483450.00	3716350.00	10.62577	(12012316)	483550.00	3716350.00	9.17567	(12021708)
483650.00	3716350.00	10.00096	(12020608)	483750.00	3716350.00	11.85163	(12020608)
483850.00	3716350.00	13.15431	(12020608)	483950.00	3716350.00	13.54797	(12020608)
484850.00	3716350.00	11.63225	(12021608)	484950.00	3716350.00	11.58623	(13112216)

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        481950.00   3716450.00        4.59154  (14021108)              482550.00
3716450.00        5.14575  (14010909)
        482650.00   3716450.00        5.49257  (14010909)              482750.00
3716450.00        5.68264  (14010909)
        482850.00   3716450.00        5.76970  (14112608)              482950.00
3716450.00        6.17586  (14112608)
        483050.00   3716450.00        6.57154  (14112608)              483150.00
3716450.00        8.71828  (12012316)
        483450.00   3716450.00       12.28497  (12012316)              483550.00
3716450.00       10.35975  (12012316)
        483650.00   3716450.00       10.69580  (12020608)              483750.00
3716450.00       12.82568  (12020608)
        483850.00   3716450.00       14.50725  (12020608)              483950.00
3716450.00       15.07773  (12020608)
        484050.00   3716450.00       14.58341  (12110208)              485150.00
3716450.00       13.09288  (16120208)
        482650.00   3716550.00        5.56594  (14112608)              482750.00
3716550.00        5.90214  (14112608)
        482850.00   3716550.00        6.24306  (14112608)              482950.00
3716550.00        6.76300  (14112608)
        483450.00   3716550.00       13.95803  (12012316)              483550.00
3716550.00       12.61769  (12012316)
        483650.00   3716550.00       11.52384  (12021708)              483750.00
3716550.00       14.23857  (12020608)
        483850.00   3716550.00       16.24323  (12020608)              483950.00
3716550.00       17.09322  (12020608)
        484050.00   3716550.00       16.96274  (12110208)              484950.00
3716550.00       13.37877  (16120208)
        485050.00   3716550.00       14.70455  (12122516)              485150.00
3716550.00       15.69758  (12122516)
        482850.00   3716650.00        6.75547  (14112608)              482950.00
3716650.00        7.31623  (14112608)
        483450.00   3716650.00       15.47024  (12012316)              483550.00
3716650.00       15.17870  (12012316)
        483650.00   3716650.00       13.43370  (12021708)              483750.00
3716650.00       16.07637  (12020608)
        483850.00   3716650.00       18.30838  (12020608)              483950.00
3716650.00       19.61654  (12020608)
        484050.00   3716650.00       20.00309  (12110208)              485250.00
3716650.00       16.74962  (12122516)
        481950.00   3716750.00        4.60895  (14120216)              482650.00
3716750.00        6.37000  (14112608)
        482750.00   3716750.00        6.87282  (14112608)              482850.00
3716750.00        7.31637  (14112608)
        482950.00   3716750.00        7.98230  (14112608)              483050.00
3716750.00        8.62671  (14112608)
        483150.00   3716750.00        9.40401  (14112608)              483450.00
3716750.00       16.63670  (12012316)
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: EQUIP ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
483550.00	3716750.00	17.96503	(12012316)	483650.00	3716750.00	16.63215	(12021708)
483750.00	3716750.00	18.98860	(12020608)	483850.00	3716750.00	21.04257	(12020608)
483950.00	3716750.00	22.61050	(12020608)	484050.00	3716750.00	23.91701	(12110208)
485150.00	3716750.00	19.74478	(12122516)	485250.00	3716750.00	16.71264	(12122516)
485350.00	3716750.00	13.35520	(12122516)	485450.00	3716750.00	10.46709	(13011408)
485550.00	3716750.00	9.65293	(13011408)	485650.00	3716750.00	8.88439	(15112616)
481950.00	3716850.00	5.34250	(14120216)	482050.00	3716850.00	5.28310	(14120216)
482150.00	3716850.00	5.12733	(14120216)	482650.00	3716850.00	6.77893	(14112608)
482750.00	3716850.00	7.34753	(14112608)	482850.00	3716850.00	7.95740	(14112608)
482950.00	3716850.00	8.72502	(14112608)	483050.00			

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3716850.00        9.58896  (14112608)
        483150.00   3716850.00       10.40470  (14112608)                483250.00
3716850.00       11.17380  (14112608)
        484050.00   3716850.00       29.33190  (12110208)                485550.00
3716850.00       10.59539  (15112616)
        485650.00   3716850.00       10.04591  (15112616)                481950.00
3716950.00        5.70499  (14120216)
        482050.00   3716950.00        5.86485  (14120216)                482150.00
3716950.00        5.96007  (14120216)
        482250.00   3716950.00        5.95979  (14120216)                482350.00
3716950.00        5.84534  (14120216)
        482450.00   3716950.00        6.25093  (16090808)                483150.00
3716950.00       11.48447  (14112608)
        483250.00   3716950.00       12.55048  (14112608)                485550.00
3716950.00       11.44459  (15112616)
        485650.00   3716950.00       10.91496  (15112616)                481950.00
3717050.00        5.58645  (14120216)
        482050.00   3717050.00        5.96051  (14120216)                482150.00
3717050.00        6.30884  (14120216)
        482250.00   3717050.00        6.60298  (14120216)                482350.00
3717050.00        6.80797  (14120216)
        482450.00   3717050.00        6.90742  (14120216)                482550.00
3717050.00        6.86616  (14120216)
        482650.00   3717050.00        7.43864  (14112608)                482850.00
3717050.00        9.10697  (14112608)
        482950.00   3717050.00       10.22210  (14112608)                483250.00
3717050.00       14.26988  (14112608)
        485350.00   3717050.00       13.41431  (15112616)                485450.00
3717050.00       13.31446  (15112616)
        485550.00   3717050.00       12.27332  (15112616)                485650.00
3717050.00       11.39579  (15112616)
        486250.00   3717050.00       43.89025  (13013008)                481950.00
3717150.00        4.97432  (14120216)
        482050.00   3717150.00        5.50624  (14120216)                482150.00
3717150.00        6.05320  (14120216)
        482250.00   3717150.00        6.57693  (14120216)                482350.00
3717150.00        7.10573  (14120216)
        482450.00   3717150.00        7.60016  (14120216)                482550.00
3717150.00        8.00928  (14120216)
        482650.00   3717150.00        8.30870  (14120216)                482750.00
3717150.00        8.69497  (14112608)
        482850.00   3717150.00        9.65148  (14112608)                482950.00
3717150.00       10.84336  (14112608)
        483050.00   3717150.00       12.34387  (14112608)                485350.00
3717150.00       14.82715  (15112616)
        485450.00   3717150.00       13.73718  (15112616)                485550.00
3717150.00       12.24990  (15112616)
        485650.00   3717150.00       11.23261  (15112616)                481950.00
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3717250.00   4.39821 (14112608)
        482050.00   3717250.00   4.74655 (14112608)   482150.00
3717250.00   5.19216 (14120216)
        482250.00   3717250.00   5.88344 (14120216)   482350.00
3717250.00   6.61683 (14120216)
        482450.00   3717250.00   7.39147 (14120216)   482550.00
3717250.00   8.21675 (14120216)
        482650.00   3717250.00   9.05146 (14120216)   482750.00
3717250.00   9.83929 (14120216)
        482850.00   3717250.00   10.51273 (14120216)   482950.00
3717250.00   11.53507 (14112608)
        483050.00   3717250.00   13.17797 (14112608)   483150.00
3717250.00   15.21918 (14112608)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: EQUIP   ***
                                   INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                  L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                  L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                  L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        483250.00   3717250.00   17.63440 (14112608)   483350.00
3717250.00   20.53444 (14112608)
        483450.00   3717250.00   23.83642 (14112608)   483850.00
3717250.00   49.73423 (12012316)
        483950.00   3717250.00   67.07656 (12020608)   486150.00
3717250.00   8.25889 (15122816)

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        486250.00   3717250.00        7.99555  (15122816)              481950.00
3717350.00        4.49522  (14112608)
        482050.00   3717350.00        4.85580  (14112608)              482150.00
3717350.00        5.26609  (14112608)
        482250.00   3717350.00        5.76210  (14112608)              482350.00
3717350.00        6.32253  (14112608)
        482450.00   3717350.00        6.96026  (14112608)              482550.00
3717350.00        7.67959  (14112608)
        482650.00   3717350.00        8.56820  (14112608)              482750.00
3717350.00        9.82672  (14120216)
        482850.00   3717350.00       11.27091  (14120216)              482950.00
3717350.00       12.78890  (14120216)
        483050.00   3717350.00       14.24057  (14120216)              483150.00
3717350.00       16.41725  (14112608)
        483250.00   3717350.00       19.28952  (14112608)              483350.00
3717350.00       22.92228  (14112608)
        483450.00   3717350.00       27.30591  (14112608)              483850.00
3717350.00       82.30153  (12012316)
        483950.00   3717350.00       89.25735  (12020608)              484050.00
3717350.00      134.96009  (12110208)
        484650.00   3717350.00       52.30051  (12122516)              484750.00
3717350.00       32.11211  (12122516)
        486050.00   3717350.00        8.63476  (15122816)              486150.00
3717350.00        8.35105  (15122816)
        486250.00   3717350.00        8.04280  (15122816)              481950.00
3717450.00        4.57963  (14112608)
        482050.00   3717450.00        4.95859  (14112608)              482150.00
3717450.00        5.37618  (14112608)
        482250.00   3717450.00        5.89739  (14112608)              482350.00
3717450.00        6.46424  (14112608)
        482450.00   3717450.00        7.13510  (14112608)              482750.00
3717450.00       10.02990  (14112608)
        482850.00   3717450.00       11.36138  (14112608)              482950.00
3717450.00       12.95454  (14112608)
        483050.00   3717450.00       14.98162  (14112608)              483150.00
3717450.00       17.84567  (14120216)
        483250.00   3717450.00       21.08507  (14120216)              483350.00
3717450.00       25.44126  (14112608)
        483450.00   3717450.00       31.36639  (14112608)              483550.00
3717450.00       39.35115  (14112608)
        483850.00   3717450.00      132.27419  (12012316)              483950.00
3717450.00      121.45406  (12020608)
        484050.00   3717450.00      212.70987  (12110208)              484550.00
3717450.00       66.74465  (12122516)
        484650.00   3717450.00       44.18710  (15112616)              484750.00
3717450.00       37.25538  (15112616)
        481950.00   3717550.00        4.64827  (14112608)              482050.00
3717550.00        5.04301  (14112608)
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        482150.00   3717550.00        5.49268  (14112608)                482250.00
3717550.00        6.00150  (14112608)
        482350.00   3717550.00        6.60201  (14112608)                482450.00
3717550.00        7.30107  (14112608)
        482750.00   3717550.00       10.32278  (14112608)                482850.00
3717550.00       11.75303  (14112608)
        482950.00   3717550.00       13.47653  (14112608)                483050.00
3717550.00       15.72615  (14112608)
        483250.00   3717550.00       22.56099  (14112608)                483350.00
3717550.00       27.81595  (14112608)
        483450.00   3717550.00       35.57603  (14112608)                483550.00
3717550.00       46.32593  (14112608)
        483950.00   3717550.00      312.74293  (12012316)                484050.00
3717550.00      376.18839  (12110208)
        485850.00   3717550.00       10.08934  (15122816)                485950.00
3717550.00        9.45922  (15122816)
        481950.00   3717650.00       27.48856  (15121408)                482050.00
3717650.00        5.09073  (14112608)
        482150.00   3717650.00        5.55044  (14112608)                482250.00
3717650.00        6.07626  (14112608)
        482350.00   3717650.00        6.69218  (14112608)                482450.00
3717650.00        7.40949  (14112608)
        482550.00   3717650.00        8.26819  (14112608)                482650.00
3717650.00        9.28154  (14112608)
        482750.00   3717650.00       10.52547  (14112608)                482850.00
3717650.00       12.02382  (14112608)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                   PAGE 554
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  EQUIP    ***
                                   INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***
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X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
482950.00	3717650.00	13.89568	(14112608)	483350.00	3717650.00	29.71683	(14112608)
484550.00	3717650.00	58.40541	(14112016)	484650.00	3717650.00	47.83007	(15122816)
484750.00	3717650.00	40.07949	(15122816)	484850.00	3717650.00	33.48285	(15122816)
485150.00	3717650.00	21.70394	(15122816)	485450.00	3717650.00	13.95493	(15122816)
485550.00	3717650.00	12.83141	(15122816)	482250.00	3717750.00	6.11005	(14112608)
482350.00	3717750.00	33.50964	(15121408)	482450.00	3717750.00	40.65148	(15121408)
482550.00	3717750.00	32.92524	(15121408)	482650.00	3717750.00	17.64506	(15121408)
482750.00	3717750.00	10.63088	(14112608)	482850.00	3717750.00	12.16725	(14112608)
482950.00	3717750.00	14.12078	(14112608)	484550.00	3717750.00	61.43420	(15122816)
484650.00	3717750.00	48.33706	(15122816)	484750.00	3717750.00	39.57205	(15122816)
484850.00	3717750.00	32.52551	(15122816)	485150.00	3717750.00	20.00467	(15122816)
485450.00	3717750.00	12.85749	(15122816)	485550.00	3717750.00	11.76598	(15122816)
485650.00	3717750.00	10.84767	(15122816)	485750.00	3717750.00	9.78734	(15122816)
485850.00	3717750.00	8.93496	(15122816)	485950.00	3717750.00	8.26815	(15122816)
486050.00	3717750.00	7.70843	(15122816)	482250.00	3717850.00	38.78390	(15121408)
482650.00	3717850.00	55.64545	(15121408)	482750.00	3717850.00	23.11223	(15121408)
482850.00	3717850.00	12.16870	(14112608)	482950.00	3717850.00	14.12841	(14112608)
483350.00	3717850.00	30.63830	(14112608)	483450.00	3717850.00	39.94014	(14112608)
484550.00	3717850.00	60.92518	(16123016)	484650.00	3717850.00	42.51181	(16123016)
484750.00	3717850.00	34.38922	(15122816)	484850.00	3717850.00	28.21202	(15122816)
484950.00	3717850.00	23.51311	(15122816)	485150.00			

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3717850.00       17.06774  (15122816)
        485250.00   3717850.00       14.73776  (15122816)                485450.00
3717850.00       11.67638  (15122816)
        485550.00   3717850.00       10.63286  (15122816)                485650.00
3717850.00        9.66425  (15122816)
        485750.00   3717850.00        8.68383  (15122816)                485850.00
3717850.00        8.07011  (15122816)
        485950.00   3717850.00        7.58821  (15122816)                486050.00
3717850.00        6.95605  (15122816)
        481950.00   3717950.00       46.10641  (12122108)                482250.00
3717950.00       62.29794  (12122108)
        482350.00   3717950.00       64.09778  (12122108)                482750.00
3717950.00       50.40872  (13012508)
        483350.00   3717950.00       29.52113  (14112608)                483450.00
3717950.00       37.97362  (14112608)
        483550.00   3717950.00       54.12984  (16021808)                484550.00
3717950.00       73.47083  (16123016)
        484650.00   3717950.00       57.33173  (16123016)                484750.00
3717950.00       44.76866  (16123016)
        484850.00   3717950.00       34.93978  (16123016)                484950.00
3717950.00       27.24008  (16123016)
        485350.00   3717950.00       11.35728  (16112816)                485450.00
3717950.00       10.08147  (16112816)
        485550.00   3717950.00        9.47820  (16112816)                485650.00
3717950.00        8.46524  (16112816)
        485750.00   3717950.00        7.72508  (16112816)                485850.00
3717950.00        7.31543  (16112816)
        485950.00   3717950.00        7.00871  (14021809)                486050.00
3717950.00        6.73599  (14021809)
        481950.00   3718050.00       39.36460  (13012508)                482050.00
3718050.00       42.97907  (13012508)
        482750.00   3718050.00       49.70030  (13012508)                482850.00
3718050.00       24.92254  (15121408)
        482950.00   3718050.00       34.55173  (16021608)                483050.00
3718050.00       26.85817  (15121408)
        483150.00   3718050.00       29.59072  (15121408)                483250.00
3718050.00       31.94229  (15121408)
        483350.00   3718050.00       37.49580  (16021808)                483450.00
3718050.00       44.11664  (16021808)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 555
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
```

VALUES FOR SOURCE GROUP: EQUIP ***
INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
483550.00	3718050.00	60.86987	(16021808)	483650.00	3718050.00	93.81124	(14120316)
484550.00	3718050.00	65.31464	(15121016)	484650.00	3718050.00	50.45812	(15121016)
485450.00	3718050.00	13.97300	(16123016)	485550.00	3718050.00	11.83042	(16123016)
485650.00	3718050.00	9.98371	(16123016)	485750.00	3718050.00	8.43514	(16123016)
485850.00	3718050.00	7.15047	(16123016)	485950.00	3718050.00	6.57110	(14021809)
486050.00	3718050.00	6.38667	(14021809)	481950.00	3718150.00	54.50129	(13012508)
482050.00	3718150.00	50.72572	(13012508)	482150.00	3718150.00	50.85656	(13012508)
482250.00	3718150.00	54.57462	(13012508)	482350.00	3718150.00	60.41318	(13012508)
482650.00	3718150.00	58.94304	(13012508)	482750.00	3718150.00	41.25360	(16010708)
482850.00	3718150.00	80.35918	(16010708)	482950.00	3718150.00	89.90665	(16010708)
483050.00	3718150.00	89.39390	(16010708)	483150.00	3718150.00	68.84581	(16010708)
483350.00	3718150.00	69.71040	(16021808)	483450.00	3718150.00	87.43172	(16021808)
483550.00	3718150.00	109.28223	(16021808)	483650.00	3718150.00	120.07156	(16021808)
484550.00	3718150.00	53.59685	(13112016)	484650.00	3718150.00	43.47687	(13112016)

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        485250.00   3718150.00       19.31766  (16123016)              485550.00
3718150.00       14.37694  (16123016)
        485650.00   3718150.00       12.78180  (16123016)              485750.00
3718150.00       11.29968  (16123016)
        481950.00   3718250.00       51.49705  (13012508)              482050.00
3718250.00       50.01409  (13012508)
        482150.00   3718250.00       43.24040  (13012508)              482250.00
3718250.00       41.98613  (16021608)
        482350.00   3718250.00       48.29078  (16010708)              482450.00
3718250.00       61.39898  (16010708)
        482550.00   3718250.00       68.97533  (16010708)              482650.00
3718250.00       61.93901  (16010708)
        482750.00   3718250.00       64.17188  (16010708)              482850.00
3718250.00       85.42503  (16010708)
        482950.00   3718250.00       80.27190  (16010708)              483250.00
3718250.00      118.82809  (13010408)
        484550.00   3718250.00       57.80486  (12113016)              484650.00
3718250.00       41.06387  (12121316)
        484750.00   3718250.00       33.19214  (13112016)              484850.00
3718250.00       27.66660  (13112016)
        485150.00   3718250.00       18.45409  (15121016)              485250.00
3718250.00       15.47770  (15121016)
        485650.00   3718250.00       12.80259  (16123016)              481950.00
3718350.00       37.24670  (16021608)
        482050.00   3718350.00       42.51057  (16010708)              482150.00
3718350.00       44.84718  (16010708)
        482250.00   3718350.00       47.10959  (16010708)              482350.00
3718350.00       60.76884  (16010708)
        482450.00   3718350.00       70.52754  (16010708)              482550.00
3718350.00       72.88150  (16010708)
        482650.00   3718350.00       71.02109  (16010708)              482750.00
3718350.00       68.68400  (16010708)
        483150.00   3718350.00       88.37848  (13010408)              483450.00
3718350.00      127.10091  (12121808)
        485250.00   3718350.00       15.81105  (15121016)              485350.00
3718350.00       14.24825  (15121016)
        485550.00   3718350.00       10.61432  (15121016)              485650.00
3718350.00       10.07588  (16123016)
        486150.00   3718350.00        8.77039  (16123016)              486250.00
3718350.00        8.26111  (16123016)
        481950.00   3718450.00       44.94597  (16010708)              482050.00
3718450.00       52.67822  (16010708)
        482150.00   3718450.00       52.08714  (16010708)              482250.00
3718450.00       51.51077  (16010708)
        482350.00   3718450.00       55.84582  (16010708)              482450.00
3718450.00       62.93491  (16010708)
        482550.00   3718450.00       61.74361  (16010708)              482650.00
3718450.00       62.43220  (13010408)
```

482750.00 3718450.00 74.47442 (13010408) 482850.00 3718450.00 85.46671 (13010408)
483350.00 3718450.00 105.74759 (13020608) 484450.00 3718450.00 50.06420 (16010616)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: EQUIP ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
485150.00	3718450.00	16.18425	(13112016)	485250.00	3718450.00	13.75806	(13112016)
485350.00	3718450.00	12.78832	(15121016)	485750.00	3718450.00	9.00289	(15121016)
485850.00	3718450.00	7.75598	(15121016)	485950.00	3718450.00	7.42886	(16123016)
486050.00	3718450.00	7.60283	(16123016)	481950.00	3718550.00	44.83425	(16010708)
482050.00	3718550.00	47.52140	(16010708)	482150.00	3718550.00	48.92826	(16010708)
482250.00	3718550.00	45.13218	(16010708)	482350.00	3718550.00	41.61554	(16010708)
482450.00	3718550.00	51.37034	(13010408)	482550.00	3718550.00	64.55178	(13010408)
482650.00	3718550.00	73.80172	(13010408)	482750.00			

3718550.00 79.21161 (13010408)
482850.00 3718550.00 77.76084 (13010408) 482950.00
3718550.00 79.34894 (14121708)
483550.00 3718550.00 133.84611 (14120208) 484650.00
3718550.00 31.11497 (12121316)
484750.00 3718550.00 29.72524 (12121316) 484850.00
3718550.00 27.06494 (12121316)
485850.00 3718550.00 8.53361 (15121016) 485950.00
3718550.00 7.69924 (15121016)
482050.00 3718650.00 34.44403 (16010708) 482150.00
3718650.00 32.09549 (16010708)
482250.00 3718650.00 39.65405 (13010408) 482350.00
3718650.00 52.92691 (13010408)
482450.00 3718650.00 60.56410 (13010408) 482550.00
3718650.00 66.26900 (13010408)
482650.00 3718650.00 68.54678 (13010408) 482750.00
3718650.00 69.50933 (14121708)
482850.00 3718650.00 81.92728 (14121708) 482950.00
3718650.00 84.51701 (14121708)
485150.00 3718650.00 16.79415 (12121316) 485450.00
3718650.00 10.38554 (13112016)
485550.00 3718650.00 9.35322 (13112016) 485650.00
3718650.00 8.34362 (12012408)
485850.00 3718650.00 8.04328 (15121016) 485950.00
3718650.00 7.71014 (15121016)
486050.00 3718650.00 7.25009 (15121016) 482050.00
3718750.00 29.62193 (13010408)
482150.00 3718750.00 39.17768 (13010408) 482250.00
3718750.00 46.57124 (13010408)
482350.00 3718750.00 54.06703 (13010408) 482450.00
3718750.00 57.48063 (13010408)
482550.00 3718750.00 55.27391 (13010408) 482650.00
3718750.00 63.23374 (14121708)
482750.00 3718750.00 73.18022 (14121708) 482850.00
3718750.00 73.89166 (14121708)
482950.00 3718750.00 65.26675 (12121808) 483050.00
3718750.00 67.73024 (13020608)
484950.00 3718750.00 20.83800 (12121316) 485050.00
3718750.00 19.62652 (12121316)
485150.00 3718750.00 17.95870 (12121316) 485850.00
3718750.00 7.70028 (12012408)
485950.00 3718750.00 7.14837 (12012408) 486050.00
3718750.00 6.74074 (12012408)
482350.00 3718850.00 46.16528 (13010408) 482450.00
3718850.00 47.17599 (14121708)
482550.00 3718850.00 57.33438 (14121708) 482650.00
3718850.00 62.24520 (14121708)
482750.00 3718850.00 61.52287 (14121708) 482850.00

3718850.00 58.71600 (12121808)
482950.00 3718850.00 59.21485 (13020608) 483050.00
3718850.00 60.48741 (12010608)
483150.00 3718850.00 75.01064 (12010608) 484150.00
3718850.00 75.75604 (13010108)
484250.00 3718850.00 35.26075 (13010108) 485350.00
3718850.00 13.62630 (12121316)
485450.00 3718850.00 11.81785 (12121316) 485750.00
3718850.00 7.89474 (12121316)
485850.00 3718850.00 6.94616 (12012408) 485950.00
3718850.00 6.87579 (12012408)
486050.00 3718850.00 6.40553 (12012408) 482450.00
3718950.00 51.49968 (14121708)
482550.00 3718950.00 54.24489 (14121708) 482650.00
3718950.00 48.98951 (14121708)
482750.00 3718950.00 50.98637 (12121808) 482850.00
3718950.00 52.68365 (13020608)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: EQUIP ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
482950.00	3718950.00	49.41002	(12010608)	483050.00	3718950.00	67.84853	(12010608)

```
        483150.00   3718950.00       74.75783  (12010608)              483250.00
3718950.00       76.46051  (14120208)
        485750.00   3718950.00        9.09278  (12121316)              485850.00
3718950.00        7.77890  (12121316)
        485950.00   3718950.00        6.49247  (12121316)              486050.00
3718950.00        6.11944  (12012408)
        482250.00   3719050.00       42.66272  (14121708)              482350.00
3719050.00       47.18599  (14121708)
        482450.00   3719050.00       46.68204  (14121708)              482550.00
3719050.00       43.81423  (13011008)
        482650.00   3719050.00       45.95672  (12121808)              482850.00
3719050.00       43.32993  (13020608)
        482950.00   3719050.00       57.30829  (12010608)              483050.00
3719050.00       66.70235  (12010608)
        483150.00   3719050.00       69.03477  (14120208)              483250.00
3719050.00       66.41273  (14120208)
        483350.00   3719050.00       74.29059  (16012008)              483450.00
3719050.00       72.10954  (16012008)
        483550.00   3719050.00       74.95969  (12012308)              485250.00
3719050.00       13.45115  (12121316)
        485450.00   3719050.00       11.95161  (12121316)              485550.00
3719050.00       10.92453  (12121316)
        485650.00   3719050.00       10.22770  (12121316)              485750.00
3719050.00        9.46929  (12121316)
        482350.00   3719150.00       41.69167  (14121708)              482650.00
3719150.00       44.08807  (13020608)
        482850.00   3719150.00       49.60080  (12010608)              483050.00
3719150.00       60.35492  (12121408)
        483150.00   3719150.00       63.70130  (14120208)              483250.00
3719150.00       60.90727  (16012008)
        483350.00   3719150.00       71.07598  (16012008)              483450.00
3719150.00       57.73230  (12021308)
        483550.00   3719150.00       67.06091  (12012308)              485250.00
3719150.00       12.83754  (12121316)
        485550.00   3719150.00       11.01672  (12121316)              485650.00
3719150.00       10.42962  (12121316)
        485950.00   3719150.00        7.78871  (12121316)              484550.00
3719250.00       10.13364  (16010616)
        484750.00   3719250.00       14.27139  (16010616)              484850.00
3719250.00       13.27301  (16010616)
        484750.00   3719350.00       12.33867  (16010616)              484850.00
3719350.00       12.45690  (16010616)
        484950.00   3719350.00       10.98441  (16010616)              485050.00
3719350.00       10.98360  (12121416)
        485150.00   3719350.00       10.98353  (12121416)              484250.00
3719450.00       26.04386  (13010108)
        484350.00   3719450.00        8.28778  (13010108)              484450.00
3719450.00        6.50522  (14112608)
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        484550.00   3719450.00        6.41014  (15122215)                484650.00
3719450.00        8.29731  (16010616)
        484750.00   3719450.00       10.41804  (16010616)                484850.00
3719450.00       11.29093  (16010616)
        484950.00   3719450.00       10.71392  (16010616)                485050.00
3719450.00        9.91847  (12121416)
        485150.00   3719450.00       10.09285  (12121416)                485250.00
3719450.00       10.07338  (12121416)
        485350.00   3719450.00        9.79715  (12121416)                485450.00
3719450.00        9.46024  (12121316)
        485550.00   3719450.00        9.59655  (12121316)                484250.00
3719550.00       33.42639  (13010108)
        484350.00   3719550.00       17.60434  (13010108)                484450.00
3719550.00        5.92941  (14112608)
        484550.00   3719550.00        5.83112  (15122215)                484650.00
3719550.00        6.46215  (16010616)
        484750.00   3719550.00        8.61012  (16010616)                484850.00
3719550.00        9.93920  (16010616)
        484950.00   3719550.00       10.08420  (16010616)                485050.00
3719550.00        9.11848  (16010616)
        485150.00   3719550.00        9.15300  (12121416)                485250.00
3719550.00        9.25712  (12121416)
        485350.00   3719550.00        9.31154  (12121416)                485450.00
3719550.00        8.96339  (12121416)
        485550.00   3719550.00        8.81097  (12121316)                484450.00
3719850.00        5.81589  (13010108)
        484550.00   3719850.00        5.00117  (13031809)                484650.00
3719850.00        4.59475  (15122215)
        484350.00   3719950.00       17.39770  (13010108)                484450.00
3719950.00       13.83590  (13010108)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***        09:53:15

                                    PAGE 558
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  EQUIP    ***
                                    INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                   L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                   L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                   L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
484550.00	3719950.00	9.31773	(13010108)	484650.00	3719950.00	4.55601	(13031809)
483837.50	3717212.50	47.04617	(12020608)	483862.50	3717212.50	49.69966	(12020608)
483887.50	3717212.50	55.12290	(12020608)	483412.50	3717237.50	22.18725	(14112608)
483812.50	3717237.50	51.88423	(12012316)	483837.50	3717237.50	48.84748	(12012316)
483862.50	3717237.50	51.07926	(12020608)	483887.50	3717237.50	56.85160	(12020608)
483912.50	3717237.50	61.22979	(12020608)	483937.50	3717237.50	64.27740	(12020608)
483412.50	3717262.50	22.89973	(14112608)	483437.50	3717262.50	23.79391	(14112608)
483462.50	3717262.50	24.69856	(14112608)	483812.50	3717262.50	57.55343	(12012316)
483837.50	3717262.50	54.94869	(12012316)	483862.50	3717262.50	51.86897	(12020608)
483887.50	3717262.50	58.60408	(12020608)	483912.50	3717262.50	63.04729	(12020608)
483937.50	3717262.50	66.56743	(12020608)	483962.50	3717262.50	70.91309	(12020608)
483987.50	3717262.50	76.19286	(12110208)	483412.50	3717287.50	23.62370	(14112608)
483437.50	3717287.50	24.58098	(14112608)	483462.50	3717287.50	25.57375	(14112608)
483487.50	3717287.50	26.59134	(14112608)	483812.50	3717287.50	63.71652	(12012316)
483837.50	3717287.50	61.80412	(12012316)	483862.50	3717287.50	57.57016	(12012316)
483887.50	3717287.50	60.86014	(12020608)	483912.50	3717287.50	66.68325	(12020608)
483937.50	3717287.50	71.24348	(12020608)	483962.50	3717287.50	75.40532	(12020608)
483987.50	3717287.50	84.12868	(12110208)	484012.50	3717287.50	96.31760	(12110208)
483412.50	3717312.50	24.39391	(14112608)	483437.50			

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3717312.50       25.41535  (14112608)
        483462.50   3717312.50       26.47818  (14112608)                483487.50
3717312.50       27.58760  (14112608)
        483512.50   3717312.50       28.74418  (14112608)                483787.50
3717312.50       68.66241  (12012316)
        483812.50   3717312.50       70.44944  (12012316)                483837.50
3717312.50       69.57763  (12012316)
        483862.50   3717312.50       65.87188  (12012316)                483887.50
3717312.50       65.60202  (12020608)
        483912.50   3717312.50       72.04009  (12020608)                483937.50
3717312.50       77.03109  (12020608)
        483962.50   3717312.50       81.32088  (12020608)                483987.50
3717312.50       93.34420  (12110208)
        484012.50   3717312.50      107.12125  (12110208)                484037.50
3717312.50      114.37132  (12110208)
        484562.50   3717312.50       74.95800  (12122516)                484587.50
3717312.50       69.52022  (12122516)
        484612.50   3717312.50       63.99650  (12122516)                484637.50
3717312.50       58.49288  (12122516)
        484662.50   3717312.50       53.10192  (12122516)                484687.50
3717312.50       47.91319  (12122516)
        484712.50   3717312.50       43.00965  (12122516)                484737.50
3717312.50       38.43840  (12122516)
        484762.50   3717312.50       34.18874  (12122516)                483412.50
3717337.50       25.19254  (14112608)
        483437.50   3717337.50       26.29650  (14112608)                483462.50
3717337.50       27.43601  (14112608)
        483487.50   3717337.50       28.66141  (14112608)                483512.50
3717337.50       29.94687  (14112608)
        483537.50   3717337.50       31.46867  (14112516)                483787.50
3717337.50       74.07957  (12012316)
        483812.50   3717337.50       77.63897  (12012316)                483837.50
3717337.50       78.23115  (12012316)
        483862.50   3717337.50       75.43864  (12012316)                483887.50
3717337.50       71.94913  (12020608)
        483912.50   3717337.50       79.24417  (12020608)                483937.50
3717337.50       83.47502  (12020608)
        483962.50   3717337.50       87.92428  (12020608)                483987.50
3717337.50      104.14845  (12110208)
        484012.50   3717337.50      119.79487  (12110208)                484037.50
3717337.50      127.47406  (12110208)
        484562.50   3717337.50       74.90314  (12122516)                484587.50
3717337.50       68.65037  (12122516)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: EQUIP ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
484612.50	3717337.50	62.49808	(12122516)	484637.50	3717337.50	56.52296	(12122516)
484662.50	3717337.50	50.79312	(12122516)	484687.50	3717337.50	45.38904	(12122516)
484712.50	3717337.50	40.35695	(12122516)	484737.50	3717337.50	35.73124	(12122516)
484762.50	3717337.50	31.49353	(12122516)	483412.50	3717362.50	25.98756	(14112608)
483437.50	3717362.50	27.15877	(14112608)	483462.50	3717362.50	28.42750	(14112608)
483487.50	3717362.50	29.78339	(14112608)	483512.50	3717362.50	31.22211	(14112608)
483537.50	3717362.50	32.85777	(14112608)	483787.50	3717362.50	79.37822	(12012316)
483812.50	3717362.50	85.19511	(12012316)	483837.50	3717362.50	87.80345	(12012316)
483862.50	3717362.50	86.44655	(12012316)	483887.50	3717362.50	80.84919	(12012316)
483912.50	3717362.50	87.56305	(12020608)	483937.50	3717362.50	92.26946	(12020608)
483962.50	3717362.50	94.73548	(12020608)	483987.50	3717362.50	116.82553	(12110208)
484012.50	3717362.50	134.72891	(12110208)	484037.50	3717362.50	142.71999	(12110208)

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        484562.50   3717362.50       73.83227  (12122516)              484587.50
3717362.50       66.86933  (12122516)
        484612.50   3717362.50       60.18910  (12122516)              484637.50
3717362.50       53.85360  (12122516)
        484662.50   3717362.50       47.90419  (12122516)              484687.50
3717362.50       42.37801  (12122516)
        484712.50   3717362.50       37.32658  (12122516)              484737.50
3717362.50       33.10985  (15112616)
        484762.50   3717362.50       32.34844  (15112616)              484787.50
3717362.50       31.25567  (15112616)
        483412.50   3717387.50       26.75260  (14112608)              483437.50
3717387.50       28.06405  (14112608)
        483462.50   3717387.50       29.46602  (14112608)              483487.50
3717387.50       30.94277  (14112608)
        483512.50   3717387.50       32.53857  (14112608)              483537.50
3717387.50       34.31312  (14112608)
        483562.50   3717387.50       36.17065  (14112608)              483787.50
3717387.50       84.28945  (12012316)
        483812.50   3717387.50       92.94086  (12012316)              483837.50
3717387.50       98.34861  (12012316)
        483862.50   3717387.50       99.22211  (12012316)              483887.50
3717387.50       94.78648  (12012316)
        483912.50   3717387.50       94.68428  (12020608)              483937.50
3717387.50       99.57660  (12020608)
        483962.50   3717387.50      103.39019  (12110208)              483987.50
3717387.50      131.74782  (12110208)
        484012.50   3717387.50      152.29148  (12110208)              484037.50
3717387.50      160.44014  (12110208)
        484062.50   3717387.50      155.06428  (12110208)              484562.50
3717387.50       71.71403  (12122516)
        484587.50   3717387.50       64.19240  (12122516)              484612.50
3717387.50       57.11992  (12122516)
        484637.50   3717387.50       50.55967  (12122516)              484662.50
3717387.50       44.51404  (12122516)
        484687.50   3717387.50       39.00109  (12122516)              484712.50
3717387.50       35.80356  (15112616)
        484737.50   3717387.50       34.81921  (15112616)              484762.50
3717387.50       33.70169  (15112616)
        484787.50   3717387.50       32.39829  (15112616)              483412.50
3717412.50       27.58834  (14112608)
        483437.50   3717412.50       29.01616  (14112608)              483462.50
3717412.50       30.56092  (14112608)
        483487.50   3717412.50       32.19240  (14112608)              483512.50
3717412.50       33.93844  (14112608)
        483537.50   3717412.50       35.83532  (14112608)              483562.50
3717412.50       37.88423  (14112608)
        483787.50   3717412.50       88.47298  (12012316)              483812.50
3717412.50      100.43089  (12012316)
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       483837.50   3717412.50      109.49485  (12012316)                483862.50
3717412.50      113.83973  (12012316)
       483887.50   3717412.50      111.81283  (12012316)                483912.50
3717412.50      102.95334  (12012316)
       483937.50   3717412.50      105.60741  (12020608)                483962.50
3717412.50      115.76621  (12110208)
       483987.50   3717412.50      149.33993  (12110208)                484012.50
3717412.50      172.96150  (12110208)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***        09:53:15

                                    PAGE 560
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  EQUIP    ***
                                    INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
       484037.50   3717412.50      180.95003  (12110208)                484062.50
3717412.50      172.18548  (12110208)
       484487.50   3717412.50       95.39306  (12122516)                484512.50
3717412.50       86.11246  (12122516)
       484537.50   3717412.50       77.14046  (12122516)                484562.50
3717412.50       68.62619  (12122516)
       484587.50   3717412.50       60.67714  (12122516)                484612.50
3717412.50       53.36105  (12122516)
       484637.50   3717412.50       46.72743  (12122516)                484662.50
3717412.50       40.72833  (12122516)
       484687.50   3717412.50       39.00177  (15112616)                484712.50
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3717412.50       37.73194  (15112616)
        484737.50   3717412.50       36.30047  (15112616)                484762.50
3717412.50       34.89590  (15112616)
        484787.50   3717412.50       33.45814  (15112616)                483412.50
3717437.50       28.48859  (14112608)
        483437.50   3717437.50       30.02757  (14112608)                483462.50
3717437.50       31.69716  (14112608)
        483487.50   3717437.50       33.46846  (14112608)                483512.50
3717437.50       35.36488  (14112608)
        483537.50   3717437.50       37.41443  (14112608)                483562.50
3717437.50       39.63391  (14112608)
        483587.50   3717437.50       41.97781  (14112608)                483837.50
3717437.50      120.33263  (12012316)
        483862.50   3717437.50      128.91733  (12012316)                483887.50
3717437.50      130.60296  (12012316)
        483912.50   3717437.50      123.99519  (12012316)                483937.50
3717437.50      111.70118  (12020608)
        483962.50   3717437.50      129.99599  (12110208)                483987.50
3717437.50      170.16880  (12110208)
        484012.50   3717437.50      197.38356  (12110208)                484037.50
3717437.50      204.69556  (12110208)
        484062.50   3717437.50      191.60462  (12110208)                484487.50
3717437.50       93.31474  (12122516)
        484512.50   3717437.50       83.12598  (12122516)                484537.50
3717437.50       73.53508  (12122516)
        484562.50   3717437.50       64.63094  (12122516)                484587.50
3717437.50       56.45832  (12122516)
        484612.50   3717437.50       49.04068  (12122516)                484637.50
3717437.50       43.94643  (15112616)
        484662.50   3717437.50       42.45011  (15112616)                484687.50
3717437.50       40.91554  (15112616)
        484712.50   3717437.50       39.22961  (15112616)                484737.50
3717437.50       37.55899  (15112616)
        484762.50   3717437.50       35.95561  (15112616)                483412.50
3717462.50       29.38439  (14112608)
        483437.50   3717462.50       31.02593  (14112608)                483462.50
3717462.50       32.79799  (14112608)
        483487.50   3717462.50       34.71907  (14112608)                483512.50
3717462.50       36.78095  (14112608)
        483537.50   3717462.50       39.03120  (14112608)                483562.50
3717462.50       41.43820  (14112608)
        483587.50   3717462.50       44.01299  (14112608)                483887.50
3717462.50      153.76329  (12012316)
        483912.50   3717462.50      150.49097  (12012316)                483937.50
3717462.50      134.74784  (12012316)
        483962.50   3717462.50      147.64987  (12110208)                483987.50
3717462.50      196.83070  (12110208)
        484012.50   3717462.50      228.89007  (12110208)                484037.50
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3717462.50 234.26754 (12110208)
484062.50 3717462.50 214.01449 (12110208) 484487.50
3717462.50 89.73815 (12122516)
484512.50 3717462.50 78.89207 (12122516) 484537.50
3717462.50 68.92131 (12122516)
484562.50 3717462.50 59.85901 (12122516) 484587.50
3717462.50 51.69541 (12122516)
484612.50 3717462.50 47.41761 (15112616) 484637.50
3717462.50 45.83045 (15112616)
484662.50 3717462.50 44.18973 (15112616) 484687.50
3717462.50 42.45990 (15112616)
484712.50 3717462.50 40.35227 (15112616) 484737.50
3717462.50 38.53138 (15112616)
484762.50 3717462.50 36.80607 (15112616) 483412.50
3717487.50 30.25654 (14112608)
483437.50 3717487.50 31.99841 (14112608) 483462.50
3717487.50 33.89354 (14112608)
483487.50 3717487.50 35.95314 (14112608) 483512.50
3717487.50 38.19579 (14112608)
483537.50 3717487.50 40.63895 (14112608) 483562.50
3717487.50 43.27226 (14112608)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: EQUIP ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)

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        483437.50   3717537.50       34.01961  (14112608)                483462.50
3717537.50       36.23442  (14112608)
        483487.50   3717537.50       38.57411  (14112608)                483512.50
3717537.50       41.10739  (14112608)
        483537.50   3717537.50       43.91790  (14112608)                483562.50
3717537.50       47.02434  (14112608)
        483587.50   3717537.50       50.47521  (14112608)                483612.50
3717537.50       54.26875  (14112608)
        483637.50   3717537.50       58.45602  (14112608)                483937.50
3717537.50      281.06095  (12012316)
        483962.50   3717537.50      249.14682  (12012316)                483987.50
3717537.50      347.94406  (12110208)
        484012.50   3717537.50      403.64514  (12110208)                484037.50
3717537.50      382.24865  (12110208)
        484062.50   3717537.50      308.41723  (12110208)                483412.50
3717562.50       32.64371  (14112608)
        483437.50   3717562.50       34.85142  (14112608)                483462.50
3717562.50       37.20861  (14112608)
        483487.50   3717562.50       39.74815  (14112608)                483512.50
3717562.50       42.51784  (14112608)
        483537.50   3717562.50       45.54999  (14112608)                483562.50
3717562.50       48.92380  (14112608)
        483587.50   3717562.50       52.65159  (14112608)                483612.50
3717562.50       56.79604  (14112608)
        483637.50   3717562.50       61.44442  (14112608)                483937.50
3717562.50      367.49514  (12012316)
        483962.50   3717562.50      345.74422  (12012316)                483987.50
3717562.50      443.72734  (12110208)
        484012.50   3717562.50      512.57004  (12110208)                484037.50
3717562.50      459.61490  (12110208)
        484062.50   3717562.50      346.90224  (12110208)                483412.50
3717587.50       33.30110  (14112608)
        483437.50   3717587.50       35.58990  (14112608)                483462.50
3717587.50       38.08091  (14112608)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 562
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  EQUIP    ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
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L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
483487.50	3717587.50	40.78625	(14112608)	483512.50	3717587.50	43.78665	(14112608)
483537.50	3717587.50	47.09172	(14112608)	483562.50	3717587.50	50.77146	(14120216)
483587.50	3717587.50	55.10157	(14120216)	483612.50	3717587.50	59.82114	(14120216)
483637.50	3717587.50	64.92372	(14120216)	484512.50	3717612.50	63.61424	(15112616)
484537.50	3717612.50	59.53680	(15112616)	484562.50	3717612.50	56.15896	(15112616)
484587.50	3717612.50	52.82807	(15112616)	484612.50	3717612.50	49.75896	(15112616)
484637.50	3717612.50	47.04570	(15112616)	484662.50	3717612.50	45.01486	(15122816)
484687.50	3717612.50	43.31986	(15122816)	484712.50	3717612.50	41.61869	(15122816)
484737.50	3717612.50	39.68364	(15122816)	484762.50	3717612.50	37.84119	(15122816)
484787.50	3717612.50	36.18256	(15122816)	484812.50	3717612.50	34.60412	(15122816)
484837.50	3717612.50	32.61537	(15122816)	484862.50	3717612.50	31.17260	(15122816)
484512.50	3717637.50	63.50678	(15112616)	484537.50	3717637.50	58.88412	(15112616)
484562.50	3717637.50	55.14582	(14112016)	484587.50	3717637.50	52.74704	(15122816)
484612.50	3717637.50	50.49856	(15122816)	484637.50	3717637.50	48.28728	(15122816)
484662.50	3717637.50	46.37002	(15122816)	484687.50	3717637.50	44.44993	(15122816)
484712.50	3717637.50	42.56852	(15122816)	484737.50	3717637.50	40.54367	(15122816)
484762.50	3717637.50	38.58459	(15122816)	484787.50			

3717637.50 36.94923 (15122816)
484812.50 3717637.50 35.45179 (15122816) 484837.50
3717637.50 33.84007 (15122816)
484862.50 3717637.50 32.20478 (15122816) 484512.50
3717662.50 65.55826 (14112016)
484537.50 3717662.50 61.67016 (14112016) 484562.50
3717662.50 58.07452 (14112016)
484587.50 3717662.50 54.77101 (14112016) 484612.50
3717662.50 51.74266 (15122816)
484637.50 3717662.50 49.30924 (15122816) 484662.50
3717662.50 47.10401 (15122816)
484687.50 3717662.50 45.25346 (15122816) 484712.50
3717662.50 43.41728 (15122816)
484737.50 3717662.50 41.58728 (15122816) 484762.50
3717662.50 39.61609 (15122816)
484787.50 3717662.50 38.67595 (15122816) 484812.50
3717662.50 37.10658 (15122816)
484837.50 3717662.50 34.88981 (15122816) 484862.50
3717662.50 32.94251 (15122816)
484512.50 3717687.50 68.13010 (14112016) 484537.50
3717687.50 63.66196 (14112016)
484562.50 3717687.50 59.62819 (14112016) 484587.50
3717687.50 55.90218 (14112016)
484612.50 3717687.50 52.47166 (14112016) 484637.50
3717687.50 49.82884 (15122816)
484662.50 3717687.50 47.49778 (15122816) 484687.50
3717687.50 45.60436 (15122816)
484712.50 3717687.50 43.68063 (15122816) 484737.50
3717687.50 41.93397 (15122816)
484762.50 3717687.50 40.54773 (15122816) 484787.50
3717687.50 39.34890 (15122816)
484812.50 3717687.50 37.97167 (15122816) 484837.50
3717687.50 36.05588 (15122816)
484862.50 3717687.50 33.37945 (15122816) 484512.50
3717712.50 69.01293 (14112016)
484537.50 3717712.50 64.08678 (14112016) 484562.50
3717712.50 59.64286 (14112016)
484587.50 3717712.50 55.66625 (15122816) 484612.50
3717712.50 52.71478 (15122816)
484637.50 3717712.50 50.07468 (15122816) 484662.50
3717712.50 47.60481 (15122816)
484687.50 3717712.50 45.44832 (15122816) 484712.50
3717712.50 43.40556 (15122816)
484737.50 3717712.50 41.59420 (15122816) 484762.50
3717712.50 39.96083 (15122816)
484787.50 3717712.50 38.39845 (15122816) 484812.50
3717712.50 37.05927 (15122816)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: EQUIP ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
484837.50	3717712.50	35.46877	(15122816)	484862.50	3717712.50	33.35937	(15122816)
484512.50	3717737.50	68.29401	(15122816)	484537.50	3717737.50	63.51984	(15122816)
484562.50	3717737.50	59.43447	(15122816)	484587.50	3717737.50	55.88773	(15122816)
484612.50	3717737.50	52.77932	(15122816)	484637.50	3717737.50	49.92137	(15122816)
484662.50	3717737.50	47.26638	(15122816)	484687.50	3717737.50	44.83576	(15122816)
484712.50	3717737.50	42.67384	(15122816)	484737.50	3717737.50	40.80975	(15122816)
484762.50	3717737.50	39.09591	(15122816)	484787.50	3717737.50	37.31937	(15122816)
484812.50	3717737.50	35.59653	(15122816)	484837.50	3717737.50	33.97322	(15122816)
484862.50	3717737.50	32.42974	(15122816)	484512.50	3717762.50	68.21110	(15122816)
484537.50	3717762.50	63.56729	(15122816)	484562.50	3717762.50	59.39414	(15122816)

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        484587.50   3717762.50       55.94411  (15122816)              484612.50
3717762.50       52.56055  (15122816)
        484637.50   3717762.50       49.34793  (15122816)              484662.50
3717762.50       46.59362  (15122816)
        484687.50   3717762.50       44.03208  (15122816)              484712.50
3717762.50       41.82364  (15122816)
        484737.50   3717762.50       39.91046  (15122816)              484762.50
3717762.50       38.23589  (15122816)
        484787.50   3717762.50       36.36149  (15122816)              484812.50
3717762.50       34.35116  (15122816)
        484837.50   3717762.50       32.57594  (15122816)              484862.50
3717762.50       31.02517  (15122816)
        484512.50   3717787.50       67.21914  (15122816)              484537.50
3717787.50       62.74375  (15122816)
        484562.50   3717787.50       59.28327  (15122816)              484587.50
3717787.50       55.46485  (15122816)
        484612.50   3717787.50       51.63823  (15122816)              484637.50
3717787.50       48.33873  (15122816)
        484662.50   3717787.50       45.51542  (15122816)              484687.50
3717787.50       43.04902  (15122816)
        484712.50   3717787.50       40.89778  (15122816)              484737.50
3717787.50       39.11489  (15122816)
        484762.50   3717787.50       37.25862  (15122816)              484787.50
3717787.50       35.37088  (15122816)
        484812.50   3717787.50       33.37974  (15122816)              484837.50
3717787.50       31.37915  (15122816)
        484862.50   3717787.50       29.93959  (15122816)              483412.50
3717812.50       36.21645  (14112608)
        483437.50   3717812.50       38.80859  (14112608)              483462.50
3717812.50       41.70885  (14112608)
        483487.50   3717812.50       44.98868  (14112608)              484512.50
3717812.50       65.38413  (15122816)
        484537.50   3717812.50       61.78747  (15122816)              484562.50
3717812.50       58.02559  (15122816)
        484587.50   3717812.50       54.18073  (15122816)              484612.50
3717812.50       50.16291  (15122816)
        484637.50   3717812.50       46.68492  (15122816)              484662.50
3717812.50       43.96085  (15122816)
        484687.50   3717812.50       41.63921  (15122816)              484712.50
3717812.50       39.62864  (15122816)
        484737.50   3717812.50       37.80029  (15122816)              484762.50
3717812.50       36.05156  (15122816)
        484787.50   3717812.50       34.18478  (15122816)              484812.50
3717812.50       32.34911  (15122816)
        484837.50   3717812.50       30.55661  (15122816)              484862.50
3717812.50       29.13962  (15122816)
        483412.50   3717837.50       36.09093  (14112608)              483437.50
3717837.50       38.66191  (14112608)
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        483462.50   3717837.50       41.53824  (14112608)                483487.50
3717837.50       44.79024  (14112608)
        483512.50   3717837.50       48.47397  (14112608)                484512.50
3717837.50       65.88290  (16123016)
        484537.50   3717837.50       59.91585  (16123016)                484562.50
3717837.50       55.17934  (15122816)
        484587.50   3717837.50       51.72328  (15122816)                484612.50
3717837.50       48.06345  (15122816)
        484637.50   3717837.50       44.74095  (15122816)                484662.50
3717837.50       42.08069  (15122816)
        484687.50   3717837.50       39.91755  (15122816)                484712.50
3717837.50       38.05857  (15122816)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                   PAGE 564
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  EQUIP    ***
                                   INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                   L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                   L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                   L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10    IN MICROGRAMS/M**3
                   **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        484737.50   3717837.50       36.23761  (15122816)                484762.50
3717837.50       34.47462  (15122816)
        484787.50   3717837.50       32.78797  (15122816)                484812.50
3717837.50       31.10487  (15122816)
        484837.50   3717837.50       29.57559  (15122816)                484862.50
3717837.50       28.11550  (15122816)
        483412.50   3717862.50       35.86979  (14112608)                483437.50
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3717862.50       38.41229  (14112608)
        483462.50   3717862.50       41.26380  (14112608)                483487.50
3717862.50       44.46775  (14112608)
        483512.50   3717862.50       48.06977  (14112608)                484512.50
3717862.50       73.39415  (16123016)
        484537.50   3717862.50       67.21201  (16123016)                484562.50
3717862.50       61.56782  (16123016)
        484587.50   3717862.50       56.43362  (16123016)                484612.50
3717862.50       51.73242  (16123016)
        484637.50   3717862.50       47.44707  (16123016)                484662.50
3717862.50       43.58591  (16123016)
        484687.50   3717862.50       40.10566  (16123016)                484712.50
3717862.50       36.94332  (16123016)
        484737.50   3717862.50       34.25712  (15122816)                484762.50
3717862.50       32.62185  (15122816)
        484787.50   3717862.50       31.11485  (15122816)                484812.50
3717862.50       29.64019  (15122816)
        484837.50   3717862.50       28.19624  (15122816)                484862.50
3717862.50       26.92480  (15122816)
        483412.50   3717887.50       35.55934  (14112608)                483437.50
3717887.50       38.05992  (14112608)
        483462.50   3717887.50       40.86435  (14112608)                483487.50
3717887.50       43.99553  (14112608)
        483512.50   3717887.50       47.50728  (14112608)                483537.50
3717887.50       51.47325  (14112608)
        484512.50   3717887.50       78.81670  (16123016)                484537.50
3717887.50       72.59339  (16123016)
        484562.50   3717887.50       66.97219  (16123016)                484587.50
3717887.50       61.81369  (16123016)
        484612.50   3717887.50       57.05895  (16123016)                484637.50
3717887.50       52.70494  (16123016)
        484662.50   3717887.50       48.70237  (16123016)                484687.50
3717887.50       45.06861  (16123016)
        484712.50   3717887.50       41.72081  (16123016)                484737.50
3717887.50       38.63431  (16123016)
        484762.50   3717887.50       35.80002  (16123016)                484787.50
3717887.50       33.19328  (16123016)
        484812.50   3717887.50       30.79302  (16123016)                484837.50
3717887.50       28.56923  (16123016)
        484862.50   3717887.50       26.52329  (16123016)                483412.50
3717912.50       35.15908  (14112608)
        483437.50   3717912.50       37.59173  (14112608)                483462.50
3717912.50       40.30826  (14112608)
        483487.50   3717912.50       43.34644  (14112608)                483512.50
3717912.50       46.74016  (14112608)
        483537.50   3717912.50       50.56595  (14112608)                483562.50
3717912.50       54.89943  (14112608)
        484512.50   3717912.50       81.70414  (16123016)                484537.50
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3717912.50       75.79993  (16123016)
        484562.50   3717912.50       70.40184  (16123016)                484587.50
3717912.50       65.41754  (16123016)
        484612.50   3717912.50       60.83023  (16123016)                484637.50
3717912.50       56.55058  (16123016)
        484662.50   3717912.50       52.62353  (16123016)                484687.50
3717912.50       48.97149  (16123016)
        484712.50   3717912.50       45.59641  (16123016)                484737.50
3717912.50       42.46722  (16123016)
        484762.50   3717912.50       39.56290  (16123016)                484787.50
3717912.50       36.86698  (16123016)
        484812.50   3717912.50       34.36782  (16123016)                484837.50
3717912.50       32.04771  (16123016)
        484862.50   3717912.50       29.87902  (16123016)                483412.50
3717937.50       34.67723  (14112608)
        483437.50   3717937.50       37.03341  (14112608)                483462.50
3717937.50       39.64899  (14112608)
        483487.50   3717937.50       42.57625  (14112608)                483512.50
3717937.50       45.83611  (14112608)
        483537.50   3717937.50       50.06129  (16021808)                483562.50
3717937.50       55.54805  (16021808)
        483587.50   3717937.50       61.71303  (16021808)                484512.50
3717937.50       81.77957  (16123016)
        484537.50   3717937.50       76.47677  (16123016)                484562.50
3717937.50       71.54413  (16123016)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***        09:53:15

                                    PAGE 565
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  EQUIP    ***
                                    INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                   L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                   L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                   L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                              ** CONC OF PM_10    IN MICROGRAMS/M**3
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**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
484587.50	3717937.50	66.98749	(16123016)	484612.50	3717937.50	62.71551	(16123016)
484637.50	3717937.50	58.73262	(16123016)	484662.50	3717937.50	55.01062	(16123016)
484687.50	3717937.50	51.54642	(16123016)	484712.50	3717937.50	48.29137	(16123016)
484737.50	3717937.50	45.24665	(16123016)	484762.50	3717937.50	42.40444	(16123016)
484787.50	3717937.50	39.73684	(16123016)	484812.50	3717937.50	37.23963	(16123016)
484837.50	3717937.50	34.90540	(16123016)	484862.50	3717937.50	32.71643	(16123016)
483412.50	3717962.50	34.12368	(14112608)	483437.50	3717962.50	36.39612	(14112608)
483462.50	3717962.50	39.48572	(16021808)	483487.50	3717962.50	43.39157	(16021808)
483512.50	3717962.50	47.82021	(16021808)	483537.50	3717962.50	52.74572	(16021808)
483562.50	3717962.50	58.24915	(16021808)	483587.50	3717962.50	64.25409	(16021808)
483612.50	3717962.50	70.81716	(16021808)	484512.50	3717962.50	78.95123	(16123016)
484537.50	3717962.50	74.47510	(16123016)	484562.50	3717962.50	70.25783	(16123016)
484587.50	3717962.50	66.30765	(16123016)	484612.50	3717962.50	62.56598	(16123016)
484637.50	3717962.50	59.04501	(16123016)	484662.50	3717962.50	55.70680	(16123016)
484687.50	3717962.50	52.57015	(16123016)	484712.50	3717962.50	49.59230	(16123016)
484737.50	3717962.50	46.76087	(16123016)	484762.50	3717962.50	44.09556	(16123016)
484787.50	3717962.50	41.57828	(16123016)	484812.50	3717962.50	39.19725	(16123016)
484837.50	3717962.50	36.94563	(16123016)	484862.50	3717962.50	34.81817	(16123016)
483412.50	3717987.50	34.91816	(16021808)	483437.50	3717987.50	38.13974	(16021808)
483462.50	3717987.50	41.71920	(16021808)	483487.50	3717987.50	45.69306	(16021808)
483512.50	3717987.50	50.09574	(16021808)	483537.50	3717987.50	54.97559	(16021808)

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        483562.50   3717987.50       60.34515  (16021808)                483587.50
3717987.50       66.20306  (16021808)
        483612.50   3717987.50       72.65944  (16021808)                484512.50
3717987.50       73.53567  (15121016)
        484537.50   3717987.50       69.87711  (16123016)                484562.50
3717987.50       66.57604  (16123016)
        484587.50   3717987.50       63.39592  (16123016)                484612.50
3717987.50       60.36147  (16123016)
        484637.50   3717987.50       57.42111  (16123016)                484662.50
3717987.50       54.62830  (16123016)
        484687.50   3717987.50       51.91803  (16123016)                484712.50
3717987.50       49.35847  (16123016)
        484737.50   3717987.50       46.89382  (16123016)                484762.50
3717987.50       44.52210  (16123016)
        484787.50   3717987.50       42.25783  (16123016)                484812.50
3717987.50       40.09236  (16123016)
        484837.50   3717987.50       38.02570  (16123016)                484862.50
3717987.50       36.05345  (16123016)
        483412.50   3718012.50       36.77764  (16021808)                483437.50
3718012.50       40.05140  (16021808)
        483462.50   3718012.50       43.65563  (16021808)                483487.50
3718012.50       47.63379  (16021808)
        483512.50   3718012.50       52.00948  (16021808)                483537.50
3718012.50       56.80858  (16021808)
        483562.50   3718012.50       62.04337  (16021808)                483587.50
3718012.50       67.77766  (16021808)
        483612.50   3718012.50       74.09783  (16021808)                483637.50
3718012.50       80.37431  (16021808)
        484512.50   3718012.50       74.39605  (15121016)                484537.50
3718012.50       69.00018  (15121016)
        484562.50   3718012.50       63.83731  (15121016)                484587.50
3718012.50       58.93037  (15121016)
        484612.50   3718012.50       56.19643  (16123016)                484637.50
3718012.50       53.95897  (16123016)
        484662.50   3718012.50       51.79070  (16123016)                484687.50
3718012.50       49.67956  (16123016)
        484712.50   3718012.50       47.62099  (16123016)                484737.50
3718012.50       45.60425  (16123016)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 566
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  EQUIP    ***
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CurciVineyardIIICon.ADO
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
484762.50	3718012.50	43.63531	(16123016)	484787.50	3718012.50	41.71876	(16123016)
484812.50	3718012.50	39.86393	(16123016)	484837.50	3718012.50	38.06314	(16123016)
484862.50	3718012.50	36.32563	(16123016)	483412.50	3718037.50	38.40689	(16021808)
483437.50	3718037.50	41.68239	(16021808)	483462.50	3718037.50	45.25774	(16021808)
483487.50	3718037.50	49.17603	(16021808)	483512.50	3718037.50	53.44030	(16021808)
483537.50	3718037.50	58.07321	(16021808)	483562.50	3718037.50	63.06313	(16021808)
483587.50	3718037.50	68.49104	(16021808)	483612.50	3718037.50	74.32606	(16021808)
483637.50	3718037.50	83.22370	(14120316)	483662.50	3718037.50	98.64140	(14120316)
484512.50	3718037.50	72.74001	(15121016)	484537.50	3718037.50	68.37472	(15121016)
484562.50	3718037.50	64.06675	(15121016)	484587.50	3718037.50	59.85451	(15121016)
484612.50	3718037.50	55.76470	(15121016)	484637.50	3718037.50	51.84127	(15121016)
484662.50	3718037.50	48.08737	(15121016)	484687.50	3718037.50	45.99393	(16123016)
484712.50	3718037.50	44.48328	(16123016)	484737.50	3718037.50	42.99511	(16123016)
484762.50	3718037.50	41.48601	(16123016)	484787.50	3718037.50	39.99661	(16123016)
484812.50	3718037.50	38.51236	(16123016)	484837.50			

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3718037.50       37.04677  (16123016)
        484862.50   3718037.50       35.60373  (16123016)                483412.50
3718062.50       48.63221  (16021808)
        483437.50   3718062.50       53.06804  (16021808)                483462.50
3718062.50       49.66808  (16021808)
        483487.50   3718062.50       50.27978  (16021808)                483512.50
3718062.50       54.37607  (16021808)
        483537.50   3718062.50       58.76222  (16021808)                483562.50
3718062.50       63.42990  (16021808)
        483587.50   3718062.50       68.39287  (16021808)                483612.50
3718062.50       75.71405  (14120316)
        483637.50   3718062.50       89.27095  (14120316)                483662.50
3718062.50      103.67202  (14120316)
        484512.50   3718062.50       68.64314  (15121016)                484537.50
3718062.50       65.50689  (15121016)
        484562.50   3718062.50       62.24662  (15121016)                484587.50
3718062.50       58.91050  (15121016)
        484612.50   3718062.50       55.57318  (15121016)                484637.50
3718062.50       52.24751  (15121016)
        484662.50   3718062.50       49.00356  (15121016)                484687.50
3718062.50       45.85906  (15121016)
        483412.50   3718087.50       60.82470  (16021808)                483437.50
3718087.50       64.65621  (16021808)
        483462.50   3718087.50       66.91583  (16021808)                483487.50
3718087.50       65.42490  (16021808)
        483512.50   3718087.50       54.78529  (16021808)                483537.50
3718087.50       58.87736  (16021808)
        483562.50   3718087.50       63.14544  (16021808)                483587.50
3718087.50       69.35797  (14120316)
        483612.50   3718087.50       81.18803  (14120316)                483637.50
3718087.50       93.68111  (14120316)
        483662.50   3718087.50      106.89957  (14120316)                484512.50
3718087.50       63.73599  (13112016)
        484537.50   3718087.50       60.62380  (15121016)                484562.50
3718087.50       58.51903  (15121016)
        484587.50   3718087.50       56.20198  (15121016)                484612.50
3718087.50       53.73674  (15121016)
        484637.50   3718087.50       51.16941  (15121016)                484662.50
3718087.50       48.54788  (15121016)
        484687.50   3718087.50       45.93586  (15121016)                483412.50
3718112.50       78.30819  (16021808)
        483437.50   3718112.50       83.47500  (16021808)                483462.50
3718112.50       74.73393  (16021808)
        483487.50   3718112.50       73.40602  (16021808)                483512.50
3718112.50       72.26921  (16021808)
        483537.50   3718112.50       62.50246  (16021808)                483562.50
3718112.50       63.90048  (14120316)
        483587.50   3718112.50       74.17720  (14120316)                483612.50
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3718112.50   85.16750 (14120316)
        483637.50   3718112.50   96.63805 (14120316)   483662.50
3718112.50   108.34164 (14120316)
 *** AERMOD - VERSION 19191 ***   *** Curci Vineyard III Construction HRA
                          ***   04/16/20
 *** AERMET - VERSION 16216 ***   ***
                         ***   09:53:15

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                               *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: EQUIP   ***
                                    INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                  L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                  L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                  L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        483687.50   3718112.50   119.74523 (14120316)   484512.50
3718112.50   62.01171 (13112016)
        484537.50   3718112.50   58.59920 (13112016)   484562.50
3718112.50   55.00675 (13112016)
        484587.50   3718112.50   51.92757 (15121016)   484612.50
3718112.50   50.39170 (15121016)
        484637.50   3718112.50   48.64420 (15121016)   484662.50
3718112.50   46.75910 (15121016)
        484687.50   3718112.50   44.77502 (15121016)   483412.50
3718137.50   84.22101 (16021808)
        483437.50   3718137.50   89.33324 (16021808)   483462.50
3718137.50   84.86992 (16021808)
        483487.50   3718137.50   82.80977 (16021808)   483512.50
3718137.50   85.71449 (16021808)
        483537.50   3718137.50   91.80060 (16021808)   483562.50
3718137.50   96.51572 (16021808)

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        483587.50   3718137.50      100.23031  (16021808)              483612.50
3718137.50      100.28076  (16021808)
        483637.50   3718137.50      110.37918  (16021808)              483662.50
3718137.50      112.87992  (12122408)
        483687.50   3718137.50      125.98021  (12122408)              484512.50
3718137.50       58.48181  (13112016)
        484537.50   3718137.50       56.28135  (13112016)              484562.50
3718137.50       53.73965  (13112016)
        484587.50   3718137.50       50.93696  (13112016)              484612.50
3718137.50       47.93542  (13112016)
        484637.50   3718137.50       44.92183  (15121016)              484662.50
3718137.50       43.79176  (15121016)
        484687.50   3718137.50       42.48824  (15121016)              483412.50
3718162.50       86.09338  (16021808)
        483437.50   3718162.50       91.80623  (16021808)              483462.50
3718162.50       96.57830  (16021808)
        483487.50   3718162.50       98.68541  (16021808)              483512.50
3718162.50      101.88276  (16021808)
        483537.50   3718162.50      106.99792  (16021808)              483562.50
3718162.50      120.52293  (16021808)
        483587.50   3718162.50      129.85251  (16021808)              483612.50
3718162.50      135.00600  (16021808)
        483637.50   3718162.50      133.04813  (16021808)              483662.50
3718162.50      139.83205  (13021908)
        483687.50   3718162.50      147.51579  (13021908)              484512.50
3718162.50       60.83789  (12113016)
        484537.50   3718162.50       54.64616  (12121316)              484562.50
3718162.50       51.01567  (13112016)
        484587.50   3718162.50       49.16800  (13112016)              484612.50
3718162.50       47.01302  (13112016)
        484637.50   3718162.50       44.64115  (13112016)              484662.50
3718162.50       42.13373  (13112016)
        484687.50   3718162.50       39.55766  (13112016)              484712.50
3718162.50       38.40869  (15121016)
        484737.50   3718162.50       37.42050  (15121016)              484762.50
3718162.50       36.29614  (15121016)
        484787.50   3718162.50       35.06464  (15121016)              484812.50
3718162.50       33.75735  (15121016)
        484837.50   3718162.50       32.38632  (15121016)              484862.50
3718162.50       30.97174  (15121016)
        483412.50   3718187.50       95.80674  (16021808)              483437.50
3718187.50      104.15016  (16021808)
        483462.50   3718187.50      108.35300  (16021808)              483487.50
3718187.50      107.00824  (16021808)
        483512.50   3718187.50      111.05345  (16021808)              483537.50
3718187.50      110.22648  (16021808)
        483562.50   3718187.50      122.53135  (16021808)              484512.50
3718187.50       63.78144  (12113016)
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        484537.50   3718187.50       56.80400  (12113016)                484562.50
3718187.50       51.15072  (12121316)
        484587.50   3718187.50       47.58698  (12121316)                484612.50
3718187.50       44.92239  (13112016)
        484637.50   3718187.50       43.32663  (13112016)                484662.50
3718187.50       41.48528  (13112016)
        484687.50   3718187.50       39.48075  (13112016)                484712.50
3718187.50       37.35948  (13112016)
        484737.50   3718187.50       35.16188  (13112016)                484762.50
3718187.50       33.92929  (15121016)
        484787.50   3718187.50       33.16405  (15121016)                484812.50
3718187.50       32.27692  (15121016)
        484837.50   3718187.50       31.28965  (15121016)                484862.50
3718187.50       30.23723  (15121016)
        484162.50   3718212.50      151.90893  (16010616)                484187.50
3718212.50      164.43708  (16010616)
```



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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  EQUIP    ***
                                    INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                   L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                   L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                   L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        484212.50   3718212.50      164.87118  (16010616)                484512.50
3718212.50       65.12924  (12113016)
        484537.50   3718212.50       59.16775  (12113016)                484562.50
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3718212.50       53.11484  (12113016)
        484587.50   3718212.50       48.05616  (12121316)                484612.50
3718212.50       44.81269  (12121316)
        484637.50   3718212.50       41.65218  (12121316)                484662.50
3718212.50       39.85950  (13112016)
        484687.50   3718212.50       38.47523  (13112016)                484712.50
3718212.50       36.89359  (13112016)
        484737.50   3718212.50       35.16928  (13112016)                484762.50
3718212.50       33.34015  (13112016)
        484787.50   3718212.50       31.44488  (13112016)                484812.50
3718212.50       30.15424  (15121016)
        484837.50   3718212.50       29.57292  (15121016)                484862.50
3718212.50       28.87819  (15121016)
        484512.50   3718237.50       64.84972  (12113016)                484537.50
3718237.50       60.11314  (12113016)
        484562.50   3718237.50       54.99245  (12113016)                484587.50
3718237.50       49.71084  (12113016)
        484612.50   3718237.50       45.26021  (12121316)                484637.50
3718237.50       42.26000  (12121316)
        484662.50   3718237.50       39.46229  (12121316)                484687.50
3718237.50       36.81095  (12121316)
        484712.50   3718237.50       35.61599  (13112016)                484737.50
3718237.50       34.40121  (13112016)
        484762.50   3718237.50       33.01611  (13112016)                484787.50
3718237.50       31.51084  (13112016)
        484812.50   3718237.50       29.92659  (13112016)                484837.50
3718237.50       28.30247  (13112016)
        484862.50   3718237.50       26.97225  (15121016)                483412.50
3718262.50      114.50275  (13011008)
        483437.50   3718262.50      121.77489  (13011008)                484137.50
3718262.50       84.89825  (16010616)
        484162.50   3718262.50      106.21073  (16010616)                484212.50
3718262.50      130.59875  (16010616)
        484512.50   3718262.50       63.02203  (12113016)                484537.50
3718262.50       59.63775  (12113016)
        484562.50   3718262.50       55.61712  (12113016)                484587.50
3718262.50       51.19685  (12113016)
        484612.50   3718262.50       46.57900  (12113016)                484637.50
3718262.50       42.60122  (12121316)
        484662.50   3718262.50       39.95038  (12121316)                484687.50
3718262.50       37.34476  (12121316)
        484712.50   3718262.50       35.01780  (12121316)                484737.50
3718262.50       32.92605  (13112016)
        484762.50   3718262.50       32.01624  (13112016)                484787.50
3718262.50       30.92734  (13112016)
        484812.50   3718262.50       29.71967  (13112016)                484837.50
3718262.50       28.40968  (13112016)
        484862.50   3718262.50       27.02523  (13112016)                483412.50
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3718287.50      116.41068  (13011008)
        483437.50   3718287.50      124.32841  (13011008)                484212.50
3718287.50      115.25554  (16010616)
        484512.50   3718287.50       59.85335  (12113016)                484537.50
3718287.50       57.83204  (12113016)
        484562.50   3718287.50       54.99440  (12113016)                484587.50
3718287.50       51.56489  (12113016)
        484612.50   3718287.50       47.73886  (12113016)                484637.50
3718287.50       43.69385  (12113016)
        484662.50   3718287.50       40.17900  (12121316)                484687.50
3718287.50       37.66866  (12121316)
        484712.50   3718287.50       35.40917  (12121316)                484737.50
3718287.50       33.30860  (12121316)
        484762.50   3718287.50       31.28534  (12121316)                484787.50
3718287.50       29.74645  (13112016)
        484812.50   3718287.50       28.91997  (13112016)                484837.50
3718287.50       27.95920  (13112016)
        484862.50   3718287.50       26.88826  (13112016)                483412.50
3718312.50      123.33808  (12121808)
        483437.50   3718312.50      131.17439  (12121808)                484187.50
3718312.50       89.56546  (16010616)
        483412.50   3718337.50      125.81720  (12121808)                483437.50
3718337.50      129.95636  (12121808)
        484187.50   3718337.50       76.43806  (16010616)                483412.50
3718412.50      119.62265  (13020608)
        483437.50   3718412.50      120.25707  (13020608)                483412.50
3718437.50      113.29386  (13020608)
        483437.50   3718437.50      121.47870  (12010608)                484462.50
3718462.50       47.20464  (16010616)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 569
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  EQUIP    ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
484487.50	3718462.50	41.28156	(16010616)	484462.50	3718487.50	47.25525	(16010616)
484487.50	3718487.50	42.06904	(16010616)				

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: GEN1 ***
INCLUDING SOURCE(S): GEN1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
481950.00	3715450.00	11.81961	(12010408)	482050.00	3715450.00	12.13138	(13122408)
482150.00	3715450.00	12.15436	(13122408)	482250.00	3715450.00	12.65398	(14011708)
482350.00	3715450.00	12.87442	(14011708)	482450.00	3715450.00	12.98029	(15122508)
482550.00	3715450.00	13.08366	(15122508)	482650.00	3715450.00	13.41844	(14010808)
482750.00	3715450.00	13.83134	(14010108)	482850.00	3715450.00	13.90387	(14010108)
482950.00	3715450.00	13.74689	(15121608)	483050.00	3715450.00	14.49927	(14123008)

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        483150.00   3715450.00       14.79785  (14123008)              483250.00
3715450.00       15.08154  (13020508)
        483350.00   3715450.00       15.27308  (13020508)              483450.00
3715450.00       15.62466  (14010208)
        483550.00   3715450.00       15.83491  (16122908)              483650.00
3715450.00       15.70442  (16122908)
        483750.00   3715450.00       16.07920  (16010408)              483850.00
3715450.00       16.12289  (16010408)
        483950.00   3715450.00       16.12762  (15011408)              484050.00
3715450.00       15.99351  (13011608)
        484150.00   3715450.00       16.16222  (13122708)              484250.00
3715450.00       16.14266  (16122808)
        484350.00   3715450.00       16.31610  (15011308)              484450.00
3715450.00       15.98277  (15011308)
        481950.00   3715550.00       12.26922  (12010408)              482050.00
3715550.00       12.41396  (13122408)
        482150.00   3715550.00       12.68298  (13122408)              482250.00
3715550.00       12.92912  (14011708)
        482350.00   3715550.00       13.29127  (14011708)              482550.00
3715550.00       13.74136  (15122508)
        482650.00   3715550.00       13.91386  (14010808)              482750.00
3715550.00       14.29631  (14010108)
        482850.00   3715550.00       14.60503  (14010108)              482950.00
3715550.00       14.39744  (14010108)
        483050.00   3715550.00       14.93669  (14123008)              483150.00
3715550.00       15.52896  (14123008)
        483250.00   3715550.00       15.67871  (14012308)              483350.00
3715550.00       16.07224  (13020508)
        483450.00   3715550.00       16.28252  (14010208)              483550.00
3715550.00       16.54627  (16122908)
        483650.00   3715550.00       16.61172  (16122908)              483750.00
3715550.00       16.82234  (16010408)
        483850.00   3715550.00       17.00332  (16010408)              483950.00
3715550.00       16.98813  (15011408)
        484050.00   3715550.00       16.87386  (13011608)              484250.00
3715550.00       16.98965  (16122808)
        484350.00   3715550.00       16.98408  (15011308)              484450.00
3715550.00       16.65377  (13122608)
        484550.00   3715550.00       17.33751  (13122608)              484950.00
3715550.00       25.92757  (15012908)
        485050.00   3715550.00       25.58807  (15012908)              481950.00
3715650.00       12.57671  (12010408)
        482050.00   3715650.00       12.95350  (12010408)              482150.00
3715650.00       13.16230  (13122408)
        482250.00   3715650.00       13.46763  (13122408)              482350.00
3715650.00       13.66260  (14011708)
        482450.00   3715650.00       14.08870  (14011708)              482650.00
3715650.00       14.55072  (15122508)
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        482750.00   3715650.00       14.90118  (14010808)                482850.00
3715650.00       15.31886  (14010108)
        482950.00   3715650.00       15.32797  (14010108)                483050.00
3715650.00       15.26699  (15121608)
        483150.00   3715650.00       16.17334  (14123008)                483250.00
3715650.00       16.39697  (14123008)
        483350.00   3715650.00       16.92173  (13020508)                483450.00
3715650.00       16.96977  (14010208)
        483550.00   3715650.00       17.44097  (14010208)                483650.00
3715650.00       17.52772  (16122908)
        483750.00   3715650.00       17.68401  (16010408)                483850.00
3715650.00       17.84037  (16010408)
        483950.00   3715650.00       17.89906  (15011408)                484050.00
3715650.00       17.64370  (13011608)
        484150.00   3715650.00       17.85001  (13122708)                484350.00
3715650.00       18.00109  (15011308)
        484450.00   3715650.00       17.57613  (13122608)                484550.00
3715650.00       17.90122  (13122608)
        484650.00   3715650.00       17.73061  (13123008)                484750.00
3715650.00       18.52085  (14012108)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                   PAGE 571
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  GEN1     ***
                                   INCLUDING SOURCE(S):     GEN1        ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        484950.00   3715650.00       21.08751  (15012908)                485050.00
3715650.00       20.72141  (13010908)
        481950.00   3715750.00       12.87987  (13012308)                482050.00
3715750.00       13.29343  (12010408)
        482150.00   3715750.00       13.57511  (12010408)                482250.00
3715750.00       13.79065  (13122408)
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        482350.00   3715750.00       14.23975  (13122408)              482450.00
3715750.00       14.64472  (14011708)
        482550.00   3715750.00       15.03654  (14011708)              482750.00
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        482850.00   3715750.00       16.02497  (14010108)              482950.00
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        483050.00   3715750.00       16.04276  (14010108)              483150.00
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        483250.00   3715750.00       17.31549  (14123008)              483350.00
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        483450.00   3715750.00       17.79833  (13020508)              483550.00
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        483650.00   3715750.00       18.54253  (16122908)              483750.00
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        483850.00   3715750.00       18.88028  (16010408)              483950.00
3715750.00       18.81250  (15011408)
        484050.00   3715750.00       18.70256  (13011608)              484150.00
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        484250.00   3715750.00       18.70958  (15010508)              484550.00
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        484850.00   3715750.00       18.43892  (15012908)              484950.00
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        482050.00   3715850.00       13.72128  (13012308)              482150.00
3715850.00       13.96500  (12010408)
        482250.00   3715850.00       14.48349  (12010408)              482350.00
3715850.00       14.79342  (13122408)
        482450.00   3715850.00       15.21644  (13122408)              482550.00
3715850.00       15.69825  (14011708)
        482650.00   3715850.00       15.92945  (14011708)              482750.00
3715850.00       16.38502  (15122508)
        482850.00   3715850.00       16.67916  (14010808)              482950.00
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        483050.00   3715850.00       17.20593  (14010108)              483150.00
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        483350.00   3715850.00       18.46082  (14012308)              483450.00
3715850.00       18.91309  (13020508)
        483550.00   3715850.00       19.35218  (14010208)              483650.00
3715850.00       19.61408  (16122908)
        483750.00   3715850.00       19.52254  (16010408)              483850.00
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3715950.00       15.07214  (12010408)
        482350.00   3715950.00       15.44924  (12010408)               482450.00
3715950.00       15.85545  (13122408)
        482550.00   3715950.00       16.22273  (13122408)               482650.00
3715950.00       16.79160  (14011708)
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3715950.00       17.38499  (15122508)
        482950.00   3715950.00       17.94224  (14010808)               483050.00
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3715950.00       20.92937  (13011608)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***        09:53:15

                                    PAGE 572
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  GEN1     ***
                                    INCLUDING SOURCE(S):     GEN1        ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
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484150.00 3715950.00 21.21754 (16122808) 484250.00 3715950.00 21.07112 (15011308)
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485250.00 3715950.00 22.30804 (15010808) 481950.00 3716050.00 14.02799 (13121608)
482050.00 3716050.00 14.57355 (13121608) 482150.00 3716050.00 14.96001 (13121608)
482250.00 3716050.00 15.51497 (13012308) 482350.00 3716050.00 16.06005 (12010408)
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482650.00 3716050.00 17.47937 (14011708) 482750.00 3716050.00 17.93229 (14011708)
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483050.00 3716050.00 19.39933 (14010108) 483150.00 3716050.00 19.47947 (14010108)
483350.00 3716050.00 20.62593 (14123008) 483450.00 3716050.00 21.16036 (13020508)
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485150.00 3716050.00 20.45793 (14122508) 485250.00 3716050.00 22.13332 (15010808)
485350.00 3716050.00 20.09289 (13020708) 485450.00 3716050.00 21.37784 (12122508)
481950.00 3716150.00 13.95172 (13121608) 482050.00 3716150.00 14.92892 (13121608)
482150.00 3716150.00 15.64311 (13121608) 482250.00 3716150.00 16.08054 (13121608)
482350.00 3716150.00 16.65607 (13012308) 482450.00 3716150.00 17.25536 (12010408)
482550.00 3716150.00 17.63922 (12010408) 482650.00 3716150.00 18.32504 (13122408)
482750.00 3716150.00 18.86760 (14011708) 482850.00 3716150.00 19.23561 (14011708)
482950.00 3716150.00 19.81511 (15122508) 483050.00 3716150.00 20.31065 (14010808)

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        483150.00   3716150.00       20.84459  (14010108)                483450.00
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        483950.00   3716150.00       23.91567  (15011408)                484150.00
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        485450.00   3716150.00       21.47898  (14012408)                481950.00
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        482450.00   3716250.00       17.86096  (13012308)                482550.00
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3716250.00       19.72341  (13122408)
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3716250.00       20.85863  (15122508)
        483050.00   3716250.00       21.22403  (15122508)                483150.00
3716250.00       22.06399  (14010108)
        483450.00   3716250.00       23.50041  (14123008)                483550.00
3716250.00       24.27382  (13020508)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***       09:53:15

                                   PAGE 573
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  GEN1     ***
                                   INCLUDING SOURCE(S):     GEN1        ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                              ** CONC OF PM_10    IN MICROGRAMS/M**3
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**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
483650.00	3716250.00	24.82094	(14010208)	483750.00	3716250.00	25.19600	(16122908)
483850.00	3716250.00	25.53103	(16010408)	483950.00	3716250.00	25.43839	(15011408)
484150.00	3716250.00	26.16179	(16122808)	484850.00	3716250.00	22.96943	(13010908)
484950.00	3716250.00	23.10635	(14122508)	485050.00	3716250.00	22.04472	(15010808)
485150.00	3716250.00	21.50399	(13020708)	485250.00	3716250.00	20.75367	(12122508)
485350.00	3716250.00	21.84005	(14012408)	481950.00	3716350.00	15.00861	(14120908)
482050.00	3716350.00	15.14332	(14120908)	482150.00	3716350.00	16.01248	(13121608)
482250.00	3716350.00	17.62509	(13121608)	482350.00	3716350.00	18.26558	(13121608)
482450.00	3716350.00	18.68365	(13121608)	482550.00	3716350.00	19.30055	(13012308)
482650.00	3716350.00	20.12640	(12010408)	482750.00	3716350.00	20.70295	(13122408)
482850.00	3716350.00	21.30893	(13122408)	482950.00	3716350.00	22.22924	(14011708)
483050.00	3716350.00	22.71546	(15122508)	483150.00	3716350.00	23.23677	(14010808)
483450.00	3716350.00	25.10947	(14123008)	483550.00	3716350.00	25.78935	(13020508)
483650.00	3716350.00	26.32103	(14010208)	483750.00	3716350.00	26.99541	(16122908)
483850.00	3716350.00	27.23199	(16010408)	483950.00	3716350.00	27.21971	(15011408)
484850.00	3716350.00	24.28427	(14010908)	484950.00	3716350.00	25.17313	(14122508)
481950.00	3716450.00	16.26961	(14120908)	482550.00	3716450.00	20.40799	(13121608)
482650.00	3716450.00	21.07270	(13012308)	482750.00	3716450.00	21.94283	(12010408)
482850.00	3716450.00	22.42188	(13122408)	482950.00	3716450.00	23.41947	(14011708)
483050.00	3716450.00	24.32253	(14011708)	483150.00	3716450.00	24.78961	(15122508)
483450.00	3716450.00	26.63869	(14123008)	483550.00	3716450.00	27.28666	(14012308)

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3716450.00       29.18707  (15011408)
        484050.00   3716450.00       29.05826  (13122708)                485150.00
3716450.00       24.78732  (14012408)
        482650.00   3716550.00       22.92168  (13121608)                482750.00
3716550.00       23.20202  (13012308)
        482850.00   3716550.00       23.79683  (12010408)                482950.00
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3716550.00       31.08594  (14010208)
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3716550.00       26.14123  (13020708)
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3716650.00       33.93262  (14010208)
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3716650.00       26.09212  (15123108)
        481950.00   3716750.00       17.19846  (12120608)                482650.00
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        482750.00   3716750.00       27.87588  (13121608)                482850.00
3716750.00       26.91866  (13121608)
        482950.00   3716750.00       28.87995  (13012308)                483050.00
3716750.00       29.95118  (12010408)
        483150.00   3716750.00       32.14858  (13122408)                483450.00
3716750.00       32.97691  (14010108)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                PAGE 574
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  GEN1     ***
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CurciVineyardIIICon.ADO
INCLUDING SOURCE(S): GEN1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
483550.00	3716750.00	33.56933	(14123008)	483650.00	3716750.00	37.01173	(14012308)
483750.00	3716750.00	38.21223	(14010208)	483850.00	3716750.00	37.07706	(16122908)
483950.00	3716750.00	37.54696	(16010408)	484050.00	3716750.00	37.14514	(13122708)
485150.00	3716750.00	27.55459	(15123108)	485250.00	3716750.00	25.67040	(15123108)
485350.00	3716750.00	23.32735	(15123108)	485450.00	3716750.00	24.27169	(16121208)
485550.00	3716750.00	26.47115	(16121208)	485650.00	3716750.00	23.92003	(16121208)
481950.00	3716850.00	17.21008	(12011608)	482050.00	3716850.00	18.15113	(12120608)
482150.00	3716850.00	19.45995	(12120608)	482650.00	3716850.00	28.47323	(14120908)
482750.00	3716850.00	28.24038	(13121608)	482850.00	3716850.00	29.64556	(13121608)
482950.00	3716850.00	32.58683	(13121608)	483050.00	3716850.00	36.26906	(13012308)
483150.00	3716850.00	35.11867	(12010408)	483250.00	3716850.00	33.94092	(14011708)
484050.00	3716850.00	43.36450	(13122708)	485550.00	3716850.00	27.12109	(16121208)
485650.00	3716850.00	24.72136	(14011608)	481950.00	3716950.00	18.69022	(12011608)
482050.00	3716950.00	18.99250	(12011608)	482150.00	3716950.00	19.43717	(12011608)
482250.00	3716950.00	20.82489	(12120608)	482350.00	3716950.00	22.64317	(12120608)
482450.00	3716950.00	24.38581	(12120608)	483150.00	3716950.00	37.81768	(13012308)
483250.00	3716950.00	37.07015	(13122408)	485550.00	3716950.00	26.47657	(14011608)
485650.00	3716950.00	24.45680	(14011608)	481950.00	3717050.00	19.38683	(12011608)

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        482050.00   3717050.00       20.24454  (12011608)                482150.00
3717050.00       21.29300  (12011608)
        482250.00   3717050.00       22.29370  (12011608)                482350.00
3717050.00       22.65841  (12011608)
        482450.00   3717050.00       24.29151  (12120608)                482550.00
3717050.00       26.23722  (12120608)
        482650.00   3717050.00       28.08406  (12120608)                482850.00
3717050.00       31.76532  (14120908)
        482950.00   3717050.00       36.54443  (14120908)                483250.00
3717050.00       47.14964  (12010408)
        485350.00   3717050.00       29.61037  (14011608)                485450.00
3717050.00       28.93495  (14011608)
        485550.00   3717050.00       26.44075  (14013008)                485650.00
3717050.00       24.98838  (14013008)
        486250.00   3717050.00       24.68903  (13013008)                481950.00
3717150.00       18.67422  (12011608)
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3717150.00       22.68184  (12011608)
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3717150.00       24.57243  (12011608)
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3717150.00       31.41670  (12120608)
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3717150.00       35.13533  (14120908)
        483050.00   3717150.00       40.88202  (14120908)                485350.00
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        485450.00   3717150.00       28.76785  (14013008)                485550.00
3717150.00       26.10640  (14013008)
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3717250.00       19.57902  (15122308)
        482050.00   3717250.00       20.03421  (15122308)                482150.00
3717250.00       21.24041  (12011608)
        482250.00   3717250.00       24.42370  (12011608)                482350.00
3717250.00       26.63201  (12011608)
        482450.00   3717250.00       27.12595  (12011608)                482550.00
3717250.00       28.56021  (12011608)
        482650.00   3717250.00       30.26670  (12011608)                482750.00
3717250.00       32.20399  (12011608)
        482850.00   3717250.00       34.39027  (12120608)                482950.00
3717250.00       36.29311  (12120608)
        483050.00   3717250.00       39.35642  (12120608)                483150.00
3717250.00       44.46930  (14120908)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: GEN1 ***
INCLUDING SOURCE(S): GEN1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
483250.00	3717250.00	49.20590	(13121608)	483350.00	3717250.00	56.75144	(13121608)
483450.00	3717250.00	53.79101	(12010408)	483850.00	3717250.00	60.45101	(15012608)
483950.00	3717250.00	66.63274	(16012608)	486150.00	3717250.00	21.11289	(12121008)
486250.00	3717250.00	20.68889	(12121008)	481950.00	3717350.00	21.24992	(15122308)
482050.00	3717350.00	21.97616	(15122308)	482150.00	3717350.00	22.73277	(15122308)
482250.00	3717350.00	24.28521	(15122308)	482350.00	3717350.00	25.54032	(15122308)
482450.00	3717350.00	27.09238	(12011608)	482550.00	3717350.00	28.97624	(12011608)
482650.00	3717350.00	32.13803	(12011608)	482750.00	3717350.00	35.65125	(12011608)
482850.00	3717350.00	36.92310	(12011608)	482950.00	3717350.00	36.50955	(12011608)
483050.00	3717350.00	40.60766	(12120608)	483150.00	3717350.00	45.08935	(12120608)
483250.00	3717350.00	48.28757	(14120908)	483350.00	3717350.00	50.07383	(14120908)
483450.00	3717350.00	53.92763	(13121608)	483850.00	3717350.00	68.52185	(15012608)
483950.00	3717350.00	74.60051	(15012608)	484050.00	3717350.00	86.04396	(12020608)
484650.00	3717350.00	57.22468	(16122708)	484750.00	3717350.00	52.32379	(16121208)
486050.00	3717350.00	20.51374	(12121008)	486150.00	3717350.00	19.76383	(12121008)

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        486250.00   3717350.00       18.97162  (12121008)              481950.00
3717450.00       21.97915  (15122308)
        482050.00   3717450.00       23.18307  (15122308)              482150.00
3717450.00       23.88511  (15122308)
        482250.00   3717450.00       26.32414  (15122308)              482350.00
3717450.00       27.41330  (15122308)
        482450.00   3717450.00       28.94083  (15122308)              482750.00
3717450.00       36.66841  (12011608)
        482850.00   3717450.00       38.97670  (12011608)              482950.00
3717450.00       40.31204  (12011608)
        483050.00   3717450.00       42.57469  (12011608)              483150.00
3717450.00       44.49631  (12011608)
        483250.00   3717450.00       49.93922  (12120608)              483350.00
3717450.00       54.01290  (12120608)
        483450.00   3717450.00       56.09792  (14120908)              483550.00
3717450.00       60.11587  (13121608)
        483850.00   3717450.00       69.50046  (12021708)              483950.00
3717450.00       81.41425  (15012608)
        484050.00   3717450.00       89.75265  (12020608)              484550.00
3717450.00       72.50836  (16121908)
        484650.00   3717450.00       71.36638  (13010208)              484750.00
3717450.00       58.74345  (14011508)
        481950.00   3717550.00       21.74156  (15122308)              482050.00
3717550.00       23.43869  (15122308)
        482150.00   3717550.00       25.18763  (15122308)              482250.00
3717550.00       26.45932  (15122308)
        482350.00   3717550.00       28.59093  (15122308)              482450.00
3717550.00       30.71071  (15122308)
        482750.00   3717550.00       39.54525  (15122308)              482850.00
3717550.00       40.44196  (15122308)
        482950.00   3717550.00       39.95956  (15122308)              483050.00
3717550.00       42.60215  (12011608)
        483250.00   3717550.00       52.85294  (12011608)              483350.00
3717550.00       56.44916  (12112608)
        483450.00   3717550.00       67.15667  (12112608)              483550.00
3717550.00       65.42108  (14120908)
        483950.00   3717550.00       97.90428  (15012608)              484050.00
3717550.00      115.43021  (12020608)
        485850.00   3717550.00       23.15214  (14011008)              485950.00
3717550.00       22.06998  (14011008)
        481950.00   3717650.00       28.12604  (12020108)              482050.00
3717650.00       26.38792  (12020108)
        482150.00   3717650.00       27.27829  (12020108)              482250.00
3717650.00       27.49353  (12020108)
        482350.00   3717650.00       28.99727  (12020108)              482450.00
3717650.00       30.09940  (12020108)
        482550.00   3717650.00       32.86896  (15122308)              482650.00
3717650.00       35.21861  (15122308)
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482750.00 3717650.00 39.21164 (15122308) 482850.00 3717650.00 41.23568 (15122308)
*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: GEN1 ***
INCLUDING SOURCE(S): GEN1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
482950.00	3717650.00	43.76670	(15122308)	483350.00	3717650.00	58.40249	(12011608)
484550.00	3717650.00	76.38403	(15112616)	484650.00	3717650.00	67.28453	(13010708)
484750.00	3717650.00	60.59044	(13010708)	484850.00	3717650.00	53.06989	(12121008)
485150.00	3717650.00	40.20801	(14011008)	485450.00	3717650.00	30.22062	(14011008)
485550.00	3717650.00	28.39174	(14011008)	482250.00	3717750.00	30.96841	(12020108)
482350.00	3717750.00	35.80645	(12020108)	482450.00	3717750.00	38.36446	(12020108)
482550.00	3717750.00	39.68439	(12020108)	482650.00	3717750.00	41.21563	(12020108)
482750.00	3717750.00	41.47048	(12020108)	482850.00	3717750.00	42.16543	(12020108)
482950.00	3717750.00	45.11435	(12020108)	484550.00	3717750.00	82.19148	(13010708)
484650.00	3717750.00	67.89040	(13010708)	484750.00	3717750.00	58.59119	(15122816)
484850.00	3717750.00	53.40973	(14011008)	485150.00	3717750.00	40.71059	(12010508)
485450.00	3717750.00	30.52629	(12010508)	485550.00	3717750.00	28.54105	(12010508)

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        485650.00   3717750.00       26.80238  (12010508)              485750.00
3717750.00       24.83456  (12010508)
        485850.00   3717750.00       23.15660  (12010508)              485950.00
3717750.00       21.75181  (12010508)
        486050.00   3717750.00       20.52607  (12010508)              482250.00
3717850.00       33.66226  (12020108)
        482650.00   3717850.00       43.63801  (12020108)              482750.00
3717850.00       44.61580  (12020108)
        482850.00   3717850.00       44.38230  (12020108)              482950.00
3717850.00       50.37452  (12020108)
        483350.00   3717850.00       66.57534  (12020108)              483450.00
3717850.00       71.32105  (12020108)
        484550.00   3717850.00       89.64983  (15122816)              484650.00
3717850.00       69.55781  (15122816)
        484750.00   3717850.00       59.48787  (12010508)              484850.00
3717850.00       52.97256  (12010508)
        484950.00   3717850.00       47.10385  (12010508)              485150.00
3717850.00       37.82414  (12010508)
        485250.00   3717850.00       34.07163  (12010508)              485450.00
3717850.00       28.65437  (12010508)
        485550.00   3717850.00       26.61918  (12010508)              485650.00
3717850.00       24.67587  (12010508)
        485750.00   3717850.00       22.68783  (12010508)              485850.00
3717850.00       21.31953  (12010508)
        485950.00   3717850.00       20.22862  (12010508)              486050.00
3717850.00       18.81164  (12010508)
        481950.00   3717950.00       18.45108  (15010208)              482250.00
3717950.00       35.68151  (15010208)
        482350.00   3717950.00       34.84001  (15010208)              482750.00
3717950.00       47.28646  (15010208)
        483350.00   3717950.00       70.06175  (12122108)              483450.00
3717950.00       75.63691  (12122108)
        483550.00   3717950.00       82.07754  (15121408)              484550.00
3717950.00       73.41409  (16112816)
        484650.00   3717950.00       64.28248  (14012208)              484750.00
3717950.00       57.95746  (14012208)
        484850.00   3717950.00       51.99958  (13020108)              484950.00
3717950.00       45.69342  (13020108)
        485350.00   3717950.00       29.17612  (13020108)              485450.00
3717950.00       26.30237  (13020108)
        485550.00   3717950.00       24.94934  (13112508)              485650.00
3717950.00       22.71240  (13112508)
        485750.00   3717950.00       21.09515  (13112508)              485850.00
3717950.00       20.22608  (13112508)
        485950.00   3717950.00       19.45380  (13112508)              486050.00
3717950.00       18.33052  (13112508)
        481950.00   3718050.00       22.45250  (12122108)              482050.00
3718050.00       20.02795  (12122108)
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482750.00 3718050.00 46.10748 (13012508) 482850.00 3718050.00 48.92275 (13012508)
482950.00 3718050.00 53.71783 (13012508) 483050.00 3718050.00 57.78325 (13012508)
483150.00 3718050.00 62.67488 (13012508) 483250.00 3718050.00 67.35666 (13012508)
483350.00 3718050.00 71.12547 (13012508) 483450.00 3718050.00 73.56802 (13012508)

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA *** 04/16/20
*** AERMET - VERSION 16216 *** *** *** 09:53:15

PAGE 577

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: GEN1 ***
INCLUDING SOURCE(S): GEN1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
483550.00	3718050.00	80.15794	(16010708)	483650.00	3718050.00	84.33103	(16010708)
484550.00	3718050.00	83.13810	(12012408)	484650.00	3718050.00	63.86983	(13011108)
485450.00	3718050.00	30.73283	(13020108)	485550.00	3718050.00	28.11433	(13020108)
485650.00	3718050.00	25.53456	(13020108)	485750.00	3718050.00	23.51274	(13020108)
485850.00	3718050.00	22.02568	(13020108)	485950.00	3718050.00	20.83344	(13020108)
486050.00	3718050.00	19.63107	(13020108)	481950.00	3718150.00	26.77301	(13012508)
482050.00	3718150.00	24.41585	(13012508)	482150.00	3718150.00	22.82181	(13012508)
482250.00	3718150.00	28.34389	(13012508)	482350.00	3718150.00	34.26973	(13012508)
482650.00	3718150.00	45.71869	(13012508)	482750.00	3718150.00	47.48904	(13012508)

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        482850.00   3718150.00       50.98882  (13012508)              482950.00
3718150.00       53.03396  (13012508)
        483050.00   3718150.00       54.33249  (13012508)              483150.00
3718150.00       57.95142  (16010708)
        483350.00   3718150.00       70.31943  (16010708)              483450.00
3718150.00       72.81283  (16010708)
        483550.00   3718150.00       78.32347  (16021808)              483650.00
3718150.00      109.13987  (16021808)
        484550.00   3718150.00       81.37957  (12012408)              484650.00
3718150.00       69.01378  (12012408)
        485250.00   3718150.00       35.15125  (13011108)              485550.00
3718150.00       28.49542  (13020108)
        485650.00   3718150.00       26.55459  (13020108)              485750.00
3718150.00       24.82265  (13020108)
        481950.00   3718250.00       31.10324  (13012508)              482050.00
3718250.00       31.37666  (13012508)
        482150.00   3718250.00       29.40935  (13012508)              482250.00
3718250.00       27.82133  (13012508)
        482350.00   3718250.00       35.06200  (13012508)              482450.00
3718250.00       38.32339  (13012508)
        482550.00   3718250.00       39.70109  (13012508)              482650.00
3718250.00       40.76360  (13012508)
        482750.00   3718250.00       42.10552  (16010708)              482850.00
3718250.00       44.15070  (16010708)
        482950.00   3718250.00       46.99657  (16010708)              483250.00
3718250.00       61.88935  (16010708)
        484550.00   3718250.00       73.08865  (12121316)              484650.00
3718250.00       61.42338  (12012408)
        484750.00   3718250.00       57.50212  (15121108)              484850.00
3718250.00       53.47047  (15121108)
        485150.00   3718250.00       36.83169  (13011108)              485250.00
3718250.00       34.77648  (13011108)
        485650.00   3718250.00       26.65400  (13011108)              481950.00
3718350.00       27.95879  (13012508)
        482050.00   3718350.00       28.81691  (13012508)              482150.00
3718350.00       26.45086  (13012508)
        482250.00   3718350.00       23.19114  (16021608)              482350.00
3718350.00       27.50963  (13012508)
        482450.00   3718350.00       34.64134  (16010708)              482550.00
3718350.00       39.01998  (16010708)
        482650.00   3718350.00       43.06994  (16010708)              482750.00
3718350.00       46.56153  (16010708)
        483150.00   3718350.00       41.12998  (13010408)              483450.00
3718350.00       77.25465  (16021808)
        485250.00   3718350.00       33.69989  (15121108)              485350.00
3718350.00       29.72809  (15121108)
        485550.00   3718350.00       26.80236  (13011108)              485650.00
3718350.00       27.40871  (13011108)
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        486150.00   3718350.00       19.32237  (13011108)                486250.00
3718350.00       18.29043  (13011108)
        481950.00   3718450.00       21.31092  (16021608)                482050.00
3718450.00       24.46147  (16010708)
        482150.00   3718450.00       24.37533  (16010708)                482250.00
3718450.00       22.69745  (16010708)
        482350.00   3718450.00       29.94425  (16010708)                482450.00
3718450.00       37.32441  (16010708)
        482550.00   3718450.00       40.66123  (16010708)                482650.00
3718450.00       42.35602  (16010708)
        482750.00   3718450.00       42.89912  (16010708)                482850.00
3718450.00       39.96125  (16010708)
        483350.00   3718450.00       67.08809  (14121708)                484450.00
3718450.00       76.54954  (12121416)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***        09:53:15

                                    PAGE 578
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  GEN1     ***
                                    INCLUDING SOURCE(S):     GEN1        ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                           ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        485150.00   3718450.00       38.69123  (15121108)                485250.00
3718450.00       34.87097  (15121108)
        485350.00   3718450.00       32.76917  (15121108)                485750.00
3718450.00       23.05956  (13011108)
        485850.00   3718450.00       21.69954  (13011108)                485950.00
3718450.00       20.69705  (13011108)
        486050.00   3718450.00       20.42807  (13011108)                481950.00
3718550.00       21.18985  (16010708)
        482050.00   3718550.00       24.76800  (16010708)                482150.00
3718550.00       28.19105  (16010708)
        482250.00   3718550.00       28.63440  (16010708)                482350.00
3718550.00       30.22244  (16010708)
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        482450.00   3718550.00       34.71008  (16010708)              482550.00
3718550.00       35.16288  (16010708)
        482650.00   3718550.00       33.95319  (13010408)              482750.00
3718550.00       41.00021  (13010408)
        482850.00   3718550.00       45.28663  (13010408)              482950.00
3718550.00       44.22186  (13010408)
        483550.00   3718550.00       71.86304  (12010608)              484650.00
3718550.00       57.99087  (14122308)
        484750.00   3718550.00       53.38738  (14122308)              484850.00
3718550.00       48.02166  (12010308)
        485850.00   3718550.00       20.84667  (15121108)              485950.00
3718550.00       19.50709  (13011108)
        482050.00   3718650.00       20.71088  (16010708)              482150.00
3718650.00       24.33470  (16010708)
        482250.00   3718650.00       27.16039  (16010708)              482350.00
3718650.00       28.43979  (16010708)
        482450.00   3718650.00       27.80883  (13010408)              482550.00
3718650.00       33.03440  (13010408)
        482650.00   3718650.00       38.36993  (13010408)              482750.00
3718650.00       41.62096  (13010408)
        482850.00   3718650.00       42.64248  (13010408)              482950.00
3718650.00       45.30158  (14121708)
        485150.00   3718650.00       28.77397  (12010308)              485450.00
3718650.00       28.69462  (15121108)
        485550.00   3718650.00       27.11197  (15121108)              485650.00
3718650.00       25.05731  (15121108)
        485850.00   3718650.00       24.04625  (15121108)              485950.00
3718650.00       20.60304  (15121108)
        486050.00   3718650.00       19.96930  (15121108)              482050.00
3718750.00       17.33838  (16010708)
        482150.00   3718750.00       19.25837  (16010708)              482250.00
3718750.00       19.71783  (13010408)
        482350.00   3718750.00       25.97645  (13010408)              482450.00
3718750.00       31.10760  (13010408)
        482550.00   3718750.00       34.47629  (13010408)              482650.00
3718750.00       35.60661  (13010408)
        482750.00   3718750.00       35.90636  (14121708)              482850.00
3718750.00       41.99812  (14121708)
        482950.00   3718750.00       44.01528  (14121708)              483050.00
3718750.00       42.30552  (14121708)
        484950.00   3718750.00       41.31514  (14122308)              485050.00
3718750.00       38.75070  (12010308)
        485150.00   3718750.00       35.18728  (12010308)              485850.00
3718750.00       25.01001  (15121108)
        485950.00   3718750.00       22.45307  (15121108)              486050.00
3718750.00       20.85544  (15121108)
        482350.00   3718850.00       26.35476  (13010408)              482450.00
3718850.00       29.20760  (13010408)
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        482550.00   3718850.00       29.34897  (13010408)                482650.00
3718850.00       31.61096  (14121708)
        482750.00   3718850.00       37.13832  (14121708)                482850.00
3718850.00       39.13785  (14121708)
        482950.00   3718850.00       35.74261  (14121708)                483050.00
3718850.00       36.86607  (12120308)
        483150.00   3718850.00       30.01311  (12010608)                484150.00
3718850.00       60.47363  (13010108)
        484250.00   3718850.00       56.18871  (14010608)                485350.00
3718850.00       26.18199  (12010308)
        485450.00   3718850.00       21.73851  (12010308)                485750.00
3718850.00       22.75951  (15121108)
        485850.00   3718850.00       22.55080  (15121108)                485950.00
3718850.00       22.97986  (15121108)
        486050.00   3718850.00       20.73133  (15121108)                482450.00
3718950.00       22.73346  (14121708)
        482550.00   3718950.00       27.99144  (14121708)                482650.00
3718950.00       30.14107  (14121708)
        482750.00   3718950.00       32.75494  (14121708)                482850.00
3718950.00       30.23305  (14121708)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***        09:53:15

                                    PAGE 579
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  GEN1     ***
                                    INCLUDING SOURCE(S):     GEN1        ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                           ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        482950.00   3718950.00       31.17318  (12120308)                483050.00
3718950.00       29.19295  (12120308)
        483150.00   3718950.00       37.30939  (12010608)                483250.00
3718950.00       33.68631  (12010608)
        485750.00   3718950.00       22.04982  (15121108)                485850.00
3718950.00       21.57626  (15121108)
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        485950.00   3718950.00       20.42139  (15121108)              486050.00
3718950.00       20.73059  (15121108)
        482250.00   3719050.00       16.34936  (13010408)              482350.00
3719050.00       18.86222  (14121708)
        482450.00   3719050.00       22.22496  (14121708)              482550.00
3719050.00       24.53105  (14121708)
        482650.00   3719050.00       26.34329  (14121708)              482850.00
3719050.00       25.64457  (12120308)
        482950.00   3719050.00       23.77588  (12120308)              483050.00
3719050.00       30.10709  (12010608)
        483150.00   3719050.00       33.51894  (12010608)              483250.00
3719050.00       34.27198  (14120208)
        483350.00   3719050.00       29.23579  (14120208)              483450.00
3719050.00       29.81779  (16012008)
        483550.00   3719050.00       25.75123  (16012008)              485250.00
3719050.00       28.77633  (14122308)
        485450.00   3719050.00       25.01109  (12010308)              485550.00
3719050.00       22.43623  (12010308)
        485650.00   3719050.00       20.63597  (12010308)              485750.00
3719050.00       18.94586  (12010308)
        482350.00   3719150.00       18.62439  (14121708)              482650.00
3719150.00       20.32194  (12012708)
        482850.00   3719150.00       21.11326  (12120308)              483050.00
3719150.00       28.21081  (12010608)
        483150.00   3719150.00       28.90728  (14120208)              483250.00
3719150.00       31.10029  (14120208)
        483350.00   3719150.00       30.69803  (16012008)              483450.00
3719150.00       31.14556  (16012008)
        483550.00   3719150.00       24.60306  (16012008)              485250.00
3719150.00       29.68410  (14122308)
        485550.00   3719150.00       23.72307  (12010308)              485650.00
3719150.00       22.38106  (12010308)
        485950.00   3719150.00       15.63513  (15121108)              484550.00
3719250.00       34.63737  (14021908)
        484750.00   3719250.00       31.20958  (14021908)              484850.00
3719250.00       26.30793  (14021908)
        484750.00   3719350.00       30.70849  (14021908)              484850.00
3719350.00       26.67322  (14021908)
        484950.00   3719350.00       21.58701  (14021908)              485050.00
3719350.00       20.95280  (12121416)
        485150.00   3719350.00       22.96937  (12010208)              484250.00
3719450.00       39.16893  (14010608)
        484350.00   3719450.00       36.18789  (14010608)              484450.00
3719450.00       30.19370  (14010608)
        484550.00   3719450.00       29.03148  (14021908)              484650.00
3719450.00       30.23764  (14021908)
        484750.00   3719450.00       29.43239  (14021908)              484850.00
3719450.00       26.76744  (14021908)
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        484950.00   3719450.00       23.13373  (14021908)               485050.00
3719450.00       19.55990  (12121416)
        485150.00   3719450.00       19.74246  (12010208)               485250.00
3719450.00       22.08717  (12010208)
        485350.00   3719450.00       23.59429  (12010208)               485450.00
3719450.00       23.35517  (12010208)
        485550.00   3719450.00       23.33719  (14122308)               484250.00
3719550.00       37.47193  (14010608)
        484350.00   3719550.00       35.24504  (14010608)               484450.00
3719550.00       29.90059  (14010608)
        484550.00   3719550.00       26.34184  (14021908)               484650.00
3719550.00       28.50861  (14021908)
        484750.00   3719550.00       28.07635  (14021908)               484850.00
3719550.00       26.52180  (14021908)
        484950.00   3719550.00       23.73624  (14021908)               485050.00
3719550.00       19.50027  (14021908)
        485150.00   3719550.00       17.90326  (12121416)               485250.00
3719550.00       18.76830  (12010208)
        485350.00   3719550.00       21.58332  (12010208)               485450.00
3719550.00       22.27978  (12010208)
        485550.00   3719550.00       22.36361  (12010208)               484450.00
3719850.00       27.52414  (14010608)
        484550.00   3719850.00       23.01616  (14010608)               484650.00
3719850.00       22.10413  (14021908)
        484350.00   3719950.00       29.10792  (14010608)               484450.00
3719950.00       27.28927  (14010608)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***        09:53:15

                                    PAGE 580
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  GEN1     ***
                                    INCLUDING SOURCE(S):     GEN1        ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                           ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
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        484550.00   3719950.00       23.66423  (14010608)              484650.00
3719950.00       20.08350  (14021908)
        483837.50   3717212.50       62.97554  (15012608)              483862.50
3717212.50       61.60106  (15012608)
        483887.50   3717212.50       65.37043  (15012608)              483412.50
3717237.50       55.03187  (13012308)
        483812.50   3717237.50       59.14709  (14123008)              483837.50
3717237.50       60.23970  (15012608)
        483862.50   3717237.50       61.79244  (15012608)              483887.50
3717237.50       64.98082  (15012608)
        483912.50   3717237.50       66.02438  (15012608)              483937.50
3717237.50       65.32837  (16012608)
        483412.50   3717262.50       53.85185  (13012308)              483437.50
3717262.50       53.78408  (13012308)
        483462.50   3717262.50       53.26524  (12010408)              483812.50
3717262.50       57.16029  (14123008)
        483837.50   3717262.50       59.03528  (15012608)              483862.50
3717262.50       61.61215  (15012608)
        483887.50   3717262.50       64.98812  (15012608)              483912.50
3717262.50       65.48052  (15012608)
        483937.50   3717262.50       64.66750  (15012608)              483962.50
3717262.50       69.55816  (16012608)
        483987.50   3717262.50       73.71436  (12020608)              483412.50
3717287.50       53.49314  (13121608)
        483437.50   3717287.50       53.07273  (13012308)              483462.50
3717287.50       53.10876  (13012308)
        483487.50   3717287.50       52.95906  (12010408)              483812.50
3717287.50       58.02552  (14123008)
        483837.50   3717287.50       59.75481  (15012608)              483862.50
3717287.50       62.73019  (15012608)
        483887.50   3717287.50       65.75705  (15012608)              483912.50
3717287.50       67.29755  (15012608)
        483937.50   3717287.50       67.22891  (15012608)              483962.50
3717287.50       70.51724  (16012608)
        483987.50   3717287.50       75.36499  (12020608)              484012.50
3717287.50       79.52884  (12020608)
        483412.50   3717312.50       53.66976  (13121608)              483437.50
3717312.50       53.47441  (13121608)
        483462.50   3717312.50       53.02769  (13012308)              483487.50
3717312.50       53.15216  (13012308)
        483512.50   3717312.50       53.26857  (12010408)              483787.50
3717312.50       59.60117  (14020308)
        483812.50   3717312.50       59.96545  (14123008)              483837.50
3717312.50       61.90110  (15012608)
        483862.50   3717312.50       65.70418  (15012608)              483887.50
3717312.50       68.74107  (15012608)
        483912.50   3717312.50       70.55828  (15012608)              483937.50
3717312.50       70.48025  (15012608)
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        483962.50   3717312.50       72.78735  (12020608)                483987.50
3717312.50       78.04593  (12020608)
        484012.50   3717312.50       82.20854  (12020608)                484037.50
3717312.50       84.64896  (12020608)
        484562.50   3717312.50       61.77171  (16120208)                484587.50
3717312.50       60.40340  (14121608)
        484612.50   3717312.50       58.65639  (16122708)                484637.50
3717312.50       56.52129  (16122708)
        484662.50   3717312.50       53.66441  (16122708)                484687.50
3717312.50       50.97235  (16122708)
        484712.50   3717312.50       48.68897  (16122708)                484737.50
3717312.50       47.77703  (13011508)
        484762.50   3717312.50       47.59639  (16121208)                483412.50
3717337.50       53.68899  (13121608)
        483437.50   3717337.50       54.00083  (13121608)                483462.50
3717337.50       53.79870  (13121608)
        483487.50   3717337.50       53.63688  (13012308)                483512.50
3717337.50       54.00149  (13012308)
        483537.50   3717337.50       54.78921  (12010408)                483787.50
3717337.50       62.38216  (14020308)
        483812.50   3717337.50       62.56346  (12021708)                483837.50
3717337.50       64.94952  (12021708)
        483862.50   3717337.50       69.30971  (15012608)                483887.50
3717337.50       73.29478  (15012608)
        483912.50   3717337.50       75.57354  (15012608)                483937.50
3717337.50       73.73796  (15012608)
        483962.50   3717337.50       75.33074  (12020608)                483987.50
3717337.50       81.01083  (12020608)
        484012.50   3717337.50       84.66462  (12020608)                484037.50
3717337.50       86.01107  (12020608)
        484562.50   3717337.50       65.64156  (16120208)                484587.50
3717337.50       63.96685  (16122708)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***       09:53:15

                                   PAGE 581
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  GEN1     ***
                                   INCLUDING SOURCE(S):     GEN1        ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                              ** CONC OF PM_10    IN MICROGRAMS/M**3
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**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
484612.50	3717337.50	61.56826	(16122708)	484637.50	3717337.50	58.14967	(16122708)
484662.50	3717337.50	54.85736	(16122708)	484687.50	3717337.50	52.02568	(16122708)
484712.50	3717337.50	50.65441	(13011508)	484737.50	3717337.50	50.74710	(13011508)
484762.50	3717337.50	50.70378	(16121208)	483412.50	3717362.50	53.04800	(13121608)
483437.50	3717362.50	53.69688	(13121608)	483462.50	3717362.50	54.36438	(13121608)
483487.50	3717362.50	54.74943	(13121608)	483512.50	3717362.50	54.81812	(13012308)
483537.50	3717362.50	56.00143	(13012308)	483787.50	3717362.50	64.15668	(14020308)
483812.50	3717362.50	65.03380	(14020308)	483837.50	3717362.50	68.24416	(12021708)
483862.50	3717362.50	73.28023	(15012608)	483887.50	3717362.50	79.62060	(15012608)
483912.50	3717362.50	81.85715	(15012608)	483937.50	3717362.50	78.96108	(15012608)
483962.50	3717362.50	77.02962	(12020608)	483987.50	3717362.50	82.58281	(12020608)
484012.50	3717362.50	86.07078	(12020608)	484037.50	3717362.50	86.92664	(12020608)
484562.50	3717362.50	67.82304	(16120208)	484587.50	3717362.50	66.38399	(16121908)
484612.50	3717362.50	63.57765	(16121908)	484637.50	3717362.50	59.84723	(16121908)
484662.50	3717362.50	56.00687	(16121908)	484687.50	3717362.50	53.38733	(13011508)
484712.50	3717362.50	53.12011	(13011508)	484737.50	3717362.50	53.59820	(16121208)
484762.50	3717362.50	53.25486	(16121208)	484787.50	3717362.50	51.74455	(16121208)
483412.50	3717387.50	51.55404	(13121608)	483437.50	3717387.50	53.24104	(13121608)
483462.50	3717387.50	54.65133	(13121608)	483487.50	3717387.50	55.55644	(13121608)
483512.50	3717387.50	56.16998	(13121608)	483537.50	3717387.50	56.77515	(13012308)
483562.50	3717387.50	57.66035	(13012308)	483787.50	3717387.50	65.27416	(14020308)

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        483812.50   3717387.50       66.26324  (14020308)                483837.50
3717387.50       68.94285  (12021708)
        483862.50   3717387.50       74.56828  (15012608)                483887.50
3717387.50       83.60417  (15012608)
        483912.50   3717387.50       84.71422  (15012608)                483937.50
3717387.50       80.90191  (15012608)
        483962.50   3717387.50       78.77555  (12020608)                483987.50
3717387.50       83.63461  (12020608)
        484012.50   3717387.50       86.61402  (12020608)                484037.50
3717387.50       87.41399  (12020608)
        484062.50   3717387.50       85.72805  (12020608)                484562.50
3717387.50       70.70226  (16121908)
        484587.50   3717387.50       68.53801  (16121908)                484612.50
3717387.50       65.62630  (16121908)
        484637.50   3717387.50       61.58579  (16121908)                484662.50
3717387.50       59.10951  (13010308)
        484687.50   3717387.50       57.10208  (13011508)                484712.50
3717387.50       56.50727  (16121208)
        484737.50   3717387.50       55.85166  (16121208)                484762.50
3717387.50       54.51419  (16121208)
        484787.50   3717387.50       52.62811  (14011608)                483412.50
3717412.50       52.48014  (14120908)
        483437.50   3717412.50       52.57772  (13121608)                483462.50
3717412.50       54.70347  (13121608)
        483487.50   3717412.50       56.28240  (13121608)                483512.50
3717412.50       57.42216  (13121608)
        483537.50   3717412.50       58.21366  (13121608)                483562.50
3717412.50       58.58841  (13012308)
        483787.50   3717412.50       66.06320  (14020308)                483812.50
3717412.50       66.78135  (14020308)
        483837.50   3717412.50       67.83755  (12021708)                483862.50
3717412.50       72.33050  (12021708)
        483887.50   3717412.50       77.71167  (15012608)                483912.50
3717412.50       81.02165  (15012608)
        483937.50   3717412.50       80.66807  (15012608)                483962.50
3717412.50       79.83586  (12020608)
        483987.50   3717412.50       84.58984  (12020608)                484012.50
3717412.50       87.32140  (12020608)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***        09:53:15

                                  PAGE 582
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  GEN1     ***
```

CurciVineyardIIICon.ADO
INCLUDING SOURCE(S): GEN1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
484037.50	3717412.50	87.96211	(12020608)	484062.50	3717412.50	85.64944	(12020608)
484487.50	3717412.50	76.01761	(16120208)	484512.50	3717412.50	74.58294	(16120208)
484537.50	3717412.50	72.87455	(16121908)	484562.50	3717412.50	72.06841	(16121908)
484587.50	3717412.50	70.39024	(16121908)	484612.50	3717412.50	67.75922	(16121908)
484637.50	3717412.50	65.04778	(13010308)	484662.50	3717412.50	62.02266	(13010308)
484687.50	3717412.50	60.74983	(16121208)	484712.50	3717412.50	59.51601	(16121208)
484737.50	3717412.50	57.40425	(16121208)	484762.50	3717412.50	55.69067	(14011608)
484787.50	3717412.50	53.82251	(14011608)	483412.50	3717437.50	54.80118	(14120908)
483437.50	3717437.50	54.91453	(14120908)	483462.50	3717437.50	54.73182	(14120908)
483487.50	3717437.50	56.50534	(13121608)	483512.50	3717437.50	58.10250	(13121608)
483537.50	3717437.50	59.28638	(13121608)	483562.50	3717437.50	59.97566	(13121608)
483587.50	3717437.50	59.88621	(13012308)	483837.50	3717437.50	67.26080	(12021708)
483862.50	3717437.50	70.26484	(12021708)	483887.50	3717437.50	73.23073	(15012608)
483912.50	3717437.50	78.51577	(15012608)	483937.50	3717437.50	80.58116	(15012608)
483962.50	3717437.50	80.75534	(12020608)	483987.50	3717437.50	85.87288	(12020608)
484012.50	3717437.50	88.66523	(12020608)	484037.50	3717437.50	89.23595	(12020608)
484062.50	3717437.50	87.32044	(12020608)	484487.50	3717437.50	78.36213	(16120208)
484512.50	3717437.50	75.47339	(16120208)	484537.50	3717437.50	73.80219	(16121908)

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        484562.50   3717437.50       72.44263  (16121908)                484587.50
3717437.50       71.05744  (16121908)
        484612.50   3717437.50       71.27900  (13010308)                484637.50
3717437.50       70.07285  (13010208)
        484662.50   3717437.50       67.32805  (13010208)                484687.50
3717437.50       64.46448  (13010208)
        484712.50   3717437.50       61.37305  (14011508)                484737.50
3717437.50       59.04227  (14011608)
        484762.50   3717437.50       56.87267  (14011608)                483412.50
3717462.50       56.68915  (14120908)
        483437.50   3717462.50       57.20399  (14120908)                483462.50
3717462.50       57.28432  (14120908)
        483487.50   3717462.50       56.94421  (14120908)                483512.50
3717462.50       57.90820  (13121608)
        483537.50   3717462.50       59.74373  (13121608)                483562.50
3717462.50       60.85973  (13121608)
        483587.50   3717462.50       61.23398  (13121608)                483887.50
3717462.50       75.13569  (12021708)
        483912.50   3717462.50       80.20093  (15012608)                483937.50
3717462.50       82.73562  (15012608)
        483962.50   3717462.50       82.92129  (12020608)                483987.50
3717462.50       88.83211  (12020608)
        484012.50   3717462.50       92.26561  (12020608)                484037.50
3717462.50       92.81801  (12020608)
        484062.50   3717462.50       90.29321  (12020608)                484487.50
3717462.50       79.53152  (16120208)
        484512.50   3717462.50       76.47936  (16121908)                484537.50
3717462.50       73.93482  (16121908)
        484562.50   3717462.50       71.45474  (16121908)                484587.50
3717462.50       71.64329  (13010208)
        484612.50   3717462.50       73.88331  (13010208)                484637.50
3717462.50       74.00856  (13010208)
        484662.50   3717462.50       72.44876  (13010208)                484687.50
3717462.50       67.99864  (14011508)
        484712.50   3717462.50       63.23683  (14011508)                484737.50
3717462.50       60.53718  (14011508)
        484762.50   3717462.50       58.03354  (14011508)                483412.50
3717487.50       58.22710  (12120608)
        483437.50   3717487.50       58.74943  (14120908)                483462.50
3717487.50       59.30166  (14120908)
        483487.50   3717487.50       59.41126  (14120908)                483512.50
3717487.50       59.03518  (14120908)
        483537.50   3717487.50       59.25882  (13121608)                483562.50
3717487.50       60.96462  (13121608)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: GEN1 ***
INCLUDING SOURCE(S): GEN1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
483587.50	3717487.50	61.95848	(13121608)	483612.50	3717487.50	62.18157	(13121608)
483912.50	3717487.50	82.75408	(15012608)	483937.50	3717487.50	85.82344	(15012608)
483962.50	3717487.50	86.20095	(12020608)	483987.50	3717487.50	93.50941	(12020608)
484012.50	3717487.50	97.75572	(12020608)	484037.50	3717487.50	98.14610	(12020608)
484062.50	3717487.50	94.75787	(12020608)	484537.50	3717487.50	73.55947	(16121908)
484562.50	3717487.50	72.82303	(13010208)	484587.50	3717487.50	72.60434	(13010208)
484612.50	3717487.50	73.93661	(13010208)	484637.50	3717487.50	74.44637	(13010208)
484662.50	3717487.50	74.26075	(13010208)	484687.50	3717487.50	71.34411	(14011508)
484712.50	3717487.50	65.31971	(14011508)	484737.50	3717487.50	61.65586	(14011508)
484762.50	3717487.50	58.74032	(14011508)	483412.50	3717512.50	60.31300	(12120608)
483437.50	3717512.50	61.78004	(12120608)	483462.50	3717512.50	62.14075	(14120908)
483487.50	3717512.50	62.09238	(14120908)	483512.50	3717512.50	61.66297	(14120908)
483537.50	3717512.50	61.12454	(14120908)	483562.50	3717512.50	60.35369	(13121608)
483587.50	3717512.50	62.14414	(13121608)	483612.50	3717512.50	63.02942	(13121608)
483912.50	3717512.50	85.77904	(12021708)	483937.50	3717512.50	89.57212	(15012608)

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        483962.50   3717512.50       90.61352  (12020608)              483987.50
3717512.50       98.74516  (12020608)
        484012.50   3717512.50      103.93022  (12020608)              484037.50
3717512.50      105.05689  (12020608)
        484062.50   3717512.50      101.35110  (12020608)              484537.50
3717512.50       76.05101  (13010208)
        484562.50   3717512.50       74.86349  (13010208)              484587.50
3717512.50       73.71661  (13010208)
        484612.50   3717512.50       73.35094  (13010208)              484637.50
3717512.50       73.12030  (13010208)
        484662.50   3717512.50       73.16982  (14011508)              484687.50
3717512.50       71.59990  (14011508)
        484712.50   3717512.50       67.56223  (14011508)              484737.50
3717512.50       62.59623  (14011508)
        484762.50   3717512.50       59.78682  (14013008)              483412.50
3717537.50       61.20779  (12120608)
        483437.50   3717537.50       65.25949  (12120608)              483462.50
3717537.50       67.07119  (12120608)
        483487.50   3717537.50       65.96385  (12120608)              483512.50
3717537.50       64.81872  (14120908)
        483537.50   3717537.50       64.25885  (14120908)              483562.50
3717537.50       63.37197  (14120908)
        483587.50   3717537.50       62.08351  (14120908)              483612.50
3717537.50       63.05286  (13121608)
        483637.50   3717537.50       64.19721  (13121608)              483937.50
3717537.50       94.25829  (15012608)
        483962.50   3717537.50       95.38806  (15012608)              483987.50
3717537.50      104.50991  (12020608)
        484012.50   3717537.50      110.62477  (12020608)              484037.50
3717537.50      112.57540  (12020608)
        484062.50   3717537.50      108.78582  (12020608)              483412.50
3717562.50       62.53901  (12112608)
        483437.50   3717562.50       66.56064  (12112608)              483462.50
3717562.50       68.87422  (12112608)
        483487.50   3717562.50       68.81201  (12112608)              483512.50
3717562.50       68.18546  (12120608)
        483537.50   3717562.50       66.86358  (14120908)              483562.50
3717562.50       66.40707  (14120908)
        483587.50   3717562.50       65.32297  (14120908)              483612.50
3717562.50       63.71962  (14120908)
        483637.50   3717562.50       63.66218  (13121608)              483937.50
3717562.50       98.93256  (12021708)
        483962.50   3717562.50      100.95944  (15012608)              483987.50
3717562.50      110.61618  (12020608)
        484012.50   3717562.50      118.38618  (12020608)              484037.50
3717562.50      120.88951  (12020608)
        484062.50   3717562.50      118.09497  (12020608)              483412.50
3717587.50       62.66982  (12112608)
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       483437.50   3717587.50   66.52890 (12112608)   483462.50
3717587.50   69.77264 (12112608)
 *** AERMOD - VERSION 19191 ***   *** Curci Vineyard III Construction HRA
                        ***   04/16/20
 *** AERMET - VERSION 16216 ***   ***
                       ***   09:53:15

                                  PAGE 584
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                               *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN1   ***
                                  INCLUDING SOURCE(S):   GEN1   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
       483487.50   3717587.50   71.21759 (12112608)   483512.50
3717587.50   71.92191 (12112608)
       483537.50   3717587.50   71.05244 (12112608)   483562.50
3717587.50   69.24133 (12120608)
       483587.50   3717587.50   68.18244 (14120908)   483612.50
3717587.50   66.44525 (14120908)
       483637.50   3717587.50   64.91934 (14120908)   484512.50
3717612.50   79.93751 (13010208)
       484537.50   3717612.50   75.42309 (13010208)   484562.50
3717612.50   72.39583 (15112616)
       484587.50   3717612.50   71.03545 (15112616)   484612.50
3717612.50   69.49057 (15112616)
       484637.50   3717612.50   68.19467 (15112616)   484662.50
3717612.50   66.46036 (15112616)
       484687.50   3717612.50   64.64425 (15112616)   484712.50
3717612.50   62.40800 (15112616)
       484737.50   3717612.50   59.75635 (14012908)   484762.50
3717612.50   57.35663 (13010708)
       484787.50   3717612.50   55.32205 (13010708)   484812.50
3717612.50   53.29142 (13010708)
       484837.50   3717612.50   50.25292 (13010708)   484862.50
3717612.50   49.17053 (12121008)
       484512.50   3717637.50   79.10701 (15112616)   484537.50
3717637.50   76.50811 (15112616)

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        484562.50   3717637.50       74.35876  (15112616)              484587.50
3717637.50       72.55393  (15112616)
        484612.50   3717637.50       70.57054  (15112616)              484637.50
3717637.50       68.19450  (15112616)
        484662.50   3717637.50       66.20761  (15112616)              484687.50
3717637.50       64.84282  (13010708)
        484712.50   3717637.50       63.31613  (13010708)              484737.50
3717637.50       60.86879  (13010708)
        484762.50   3717637.50       58.30746  (13010708)              484787.50
3717637.50       56.37564  (13010708)
        484812.50   3717637.50       54.56131  (13010708)              484837.50
3717637.50       52.86941  (12121008)
        484862.50   3717637.50       51.27614  (12121008)              484512.50
3717662.50       81.63395  (15112616)
        484537.50   3717662.50       78.58101  (15112616)              484562.50
3717662.50       75.47910  (15112616)
        484587.50   3717662.50       72.86880  (15112616)              484612.50
3717662.50       70.27314  (15112616)
        484637.50   3717662.50       68.70460  (13010708)              484662.50
3717662.50       67.18161  (13010708)
        484687.50   3717662.50       66.13631  (13010708)              484712.50
3717662.50       64.74824  (13010708)
        484737.50   3717662.50       62.95900  (13010708)              484762.50
3717662.50       60.29867  (13010708)
        484787.50   3717662.50       60.98822  (13010708)              484812.50
3717662.50       58.98897  (13010708)
        484837.50   3717662.50       55.29449  (12121008)              484862.50
3717662.50       52.71475  (12121008)
        484512.50   3717687.50       83.77964  (15112616)              484537.50
3717687.50       79.35650  (15112616)
        484562.50   3717687.50       76.05833  (13010708)              484587.50
3717687.50       74.02127  (13010708)
        484612.50   3717687.50       71.97066  (13010708)              484637.50
3717687.50       69.89379  (13010708)
        484662.50   3717687.50       67.86747  (13010708)              484687.50
3717687.50       66.48746  (13010708)
        484712.50   3717687.50       64.72133  (13010708)              484737.50
3717687.50       63.13909  (13010708)
        484762.50   3717687.50       62.56201  (13010708)              484787.50
3717687.50       62.92100  (13010708)
        484812.50   3717687.50       62.46246  (12121008)              484837.50
3717687.50       59.06242  (12121008)
        484862.50   3717687.50       53.41224  (12121008)              484512.50
3717712.50       86.20841  (13010708)
        484537.50   3717712.50       81.85725  (13010708)              484562.50
3717712.50       78.36626  (13010708)
        484587.50   3717712.50       75.57569  (13010708)              484612.50
3717712.50       72.97251  (13010708)
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        484637.50   3717712.50       70.49454  (13010708)                484662.50
3717712.50       67.95839  (13010708)
        484687.50   3717712.50       65.74628  (13010708)                484712.50
3717712.50       63.49420  (13010708)
        484737.50   3717712.50       61.54639  (13010708)                484762.50
3717712.50       59.86147  (13010708)
        484787.50   3717712.50       58.42541  (12121008)                484812.50
3717712.50       58.03052  (12121008)
♠ *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***        09:53:15

                                    PAGE 585
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  GEN1     ***
                                    INCLUDING SOURCE(S):     GEN1        ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
        484837.50   3717712.50       56.43499  (12121008)                484862.50
3717712.50       53.48007  (14011008)
        484512.50   3717737.50       88.09784  (13010708)                484537.50
3717737.50       83.73941  (13010708)
        484562.50   3717737.50       79.90321  (13010708)                484587.50
3717737.50       76.42152  (13010708)
        484612.50   3717737.50       73.23633  (13010708)                484637.50
3717737.50       70.09852  (13010708)
        484662.50   3717737.50       66.99174  (13010708)                484687.50
3717737.50       64.02340  (13010708)
        484712.50   3717737.50       61.34200  (13010708)                484737.50
3717737.50       59.08096  (13010708)
        484762.50   3717737.50       57.70389  (14011008)                484787.50
3717737.50       56.83015  (14011008)
        484812.50   3717737.50       55.73238  (14011008)                484837.50
3717737.50       54.55615  (14011008)
        484862.50   3717737.50       53.29303  (14011008)                484512.50
3717762.50       89.38707  (13010708)
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        484537.50   3717762.50       84.73376  (13010708)              484562.50
3717762.50       80.26375  (13010708)
        484587.50   3717762.50       76.68911  (13010708)              484612.50
3717762.50       72.68225  (13010708)
        484637.50   3717762.50       68.90296  (15122816)              484662.50
3717762.50       66.32605  (15122816)
        484687.50   3717762.50       63.75106  (15122816)              484712.50
3717762.50       61.57372  (15122816)
        484737.50   3717762.50       59.74601  (15122816)              484762.50
3717762.50       58.44538  (14011008)
        484787.50   3717762.50       57.08090  (14011008)              484812.50
3717762.50       55.13180  (14011008)
        484837.50   3717762.50       53.45293  (14011008)              484862.50
3717762.50       52.00971  (14011008)
        484512.50   3717787.50       89.14006  (15122816)              484537.50
3717787.50       85.66894  (15122816)
        484562.50   3717787.50       83.91241  (15122816)              484587.50
3717787.50       79.99315  (15122816)
        484612.50   3717787.50       75.22876  (15122816)              484637.50
3717787.50       71.34290  (15122816)
        484662.50   3717787.50       68.14502  (15122816)              484687.50
3717787.50       65.37714  (15122816)
        484712.50   3717787.50       63.00154  (15122816)              484737.50
3717787.50       61.24230  (15122816)
        484762.50   3717787.50       59.17391  (12010508)              484787.50
3717787.50       57.73853  (12010508)
        484812.50   3717787.50       55.77808  (12010508)              484837.50
3717787.50       53.65642  (12010508)
        484862.50   3717787.50       52.42069  (12010508)              483412.50
3717812.50       66.58065  (12020108)
        483437.50   3717812.50       67.96721  (12011308)              483462.50
3717812.50       69.79538  (12011308)
        483487.50   3717812.50       72.11478  (12011308)              484512.50
3717812.50       93.63845  (15122816)
        484537.50   3717812.50       92.39779  (15122816)              484562.50
3717812.50       89.13922  (15122816)
        484587.50   3717812.50       83.95099  (15122816)              484612.50
3717812.50       77.30862  (15122816)
        484637.50   3717812.50       72.20705  (15122816)              484662.50
3717812.50       68.75906  (15122816)
        484687.50   3717812.50       65.94009  (15122816)              484712.50
3717812.50       63.58873  (15122816)
        484737.50   3717812.50       61.44009  (15122816)              484762.50
3717812.50       60.09736  (12010508)
        484787.50   3717812.50       58.35633  (12010508)              484812.50
3717812.50       56.40533  (12010508)
        484837.50   3717812.50       54.36372  (12010508)              484862.50
3717812.50       52.95238  (12010508)
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        483412.50   3717837.50       69.20384  (12020108)                483437.50
3717837.50       69.89278  (12020108)
        483462.50   3717837.50       70.57778  (12020108)                483487.50
3717837.50       71.74653  (12020108)
        483512.50   3717837.50       73.08545  (12020108)                484512.50
3717837.50       95.40947  (15122816)
        484537.50   3717837.50       92.67936  (15122816)                484562.50
3717837.50       88.73823  (15122816)
        484587.50   3717837.50       84.15403  (15122816)                484612.50
3717837.50       77.66805  (15122816)
        484637.50   3717837.50       72.16265  (15122816)                484662.50
3717837.50       68.35686  (15122816)
        484687.50   3717837.50       65.56981  (15122816)                484712.50
3717837.50       63.33088  (15122816)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***        09:53:15

                                    PAGE 586
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  GEN1     ***
                                    INCLUDING SOURCE(S):     GEN1        ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        484737.50   3717837.50       61.03594  (12010508)                484762.50
3717837.50       59.59136  (12010508)
        484787.50   3717837.50       57.99371  (12010508)                484812.50
3717837.50       56.09899  (12010508)
        484837.50   3717837.50       54.37260  (12010508)                484862.50
3717837.50       52.62285  (12010508)
        483412.50   3717862.50       70.96126  (15121408)                483437.50
3717862.50       72.56828  (15121408)
        483462.50   3717862.50       74.70134  (15121408)                483487.50
3717862.50       77.04391  (15121408)
        483512.50   3717862.50       78.90832  (15121408)                484512.50
3717862.50       92.50920  (15122816)
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        484537.50   3717862.50       89.54862  (15122816)              484562.50
3717862.50       85.53851  (15122816)
        484587.50   3717862.50       81.14401  (15122816)              484612.50
3717862.50       75.77133  (15122816)
        484637.50   3717862.50       70.63404  (15122816)              484662.50
3717862.50       66.79515  (15122816)
        484687.50   3717862.50       63.96288  (15122816)              484712.50
3717862.50       61.56346  (15122816)
        484737.50   3717862.50       59.17937  (12010508)              484762.50
3717862.50       57.75258  (12010508)
        484787.50   3717862.50       56.36078  (12010508)              484812.50
3717862.50       54.75839  (12010508)
        484837.50   3717862.50       52.99394  (12010508)              484862.50
3717862.50       51.50252  (12010508)
        483412.50   3717887.50       73.35279  (15121408)              483437.50
3717887.50       75.65241  (15121408)
        483462.50   3717887.50       79.28148  (15121408)              483487.50
3717887.50       82.86585  (15121408)
        483512.50   3717887.50       85.29653  (15121408)              483537.50
3717887.50       87.05693  (15121408)
        484512.50   3717887.50       87.75390  (15122816)              484537.50
3717887.50       82.77018  (15122816)
        484562.50   3717887.50       79.30564  (15122816)              484587.50
3717887.50       75.65220  (15122816)
        484612.50   3717887.50       72.00548  (16112816)              484637.50
3717887.50       68.78733  (16112816)
        484662.50   3717887.50       65.59179  (16112816)              484687.50
3717887.50       63.40918  (16112816)
        484712.50   3717887.50       61.16559  (16112816)              484737.50
3717887.50       58.83764  (16112816)
        484762.50   3717887.50       56.73495  (16112816)              484787.50
3717887.50       54.77906  (16112816)
        484812.50   3717887.50       52.92239  (16112816)              484837.50
3717887.50       50.82057  (16112816)
        484862.50   3717887.50       49.29144  (12010508)              483412.50
3717912.50       74.07606  (15121408)
        483437.50   3717912.50       76.19147  (15121408)              483462.50
3717912.50       79.33791  (15121408)
        483487.50   3717912.50       82.85063  (15121408)              483512.50
3717912.50       84.96683  (15121408)
        483537.50   3717912.50       87.01452  (15121408)              483562.50
3717912.50       89.08744  (15121408)
        484512.50   3717912.50       83.88285  (16112816)              484537.50
3717912.50       79.98605  (16112816)
        484562.50   3717912.50       76.90030  (16112816)              484587.50
3717912.50       73.80517  (16112816)
        484612.50   3717912.50       71.15569  (16112816)              484637.50
3717912.50       67.88412  (16112816)
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        484662.50   3717912.50       65.45932  (16112816)                484687.50
3717912.50       62.88129  (16112816)
        484712.50   3717912.50       60.63901  (16112816)                484737.50
3717912.50       58.51612  (16112816)
        484762.50   3717912.50       56.45059  (16112816)                484787.50
3717912.50       54.44663  (16112816)
        484812.50   3717912.50       52.59693  (16112816)                484837.50
3717912.50       50.82105  (16112816)
        484862.50   3717912.50       48.74566  (16112816)                483412.50
3717937.50       73.28372  (12122108)
        483437.50   3717937.50       75.13868  (15121408)                483462.50
3717937.50       77.10698  (15121408)
        483487.50   3717937.50       80.24231  (15121408)                483512.50
3717937.50       82.09492  (15121408)
        483537.50   3717937.50       83.84004  (15121408)                483562.50
3717937.50       85.46853  (15121408)
        483587.50   3717937.50       87.40467  (15121408)                484512.50
3717937.50       80.28639  (16112816)
        484537.50   3717937.50       77.13553  (16112816)                484562.50
3717937.50       73.91651  (16112816)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                   PAGE 587
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  GEN1     ***
                                   INCLUDING SOURCE(S):     GEN1        ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        484587.50   3717937.50       71.42651  (16112816)                484612.50
3717937.50       68.58835  (16112816)
        484637.50   3717937.50       65.97216  (16112816)                484662.50
3717937.50       63.48345  (16112816)
        484687.50   3717937.50       61.44308  (16112816)                484712.50
3717937.50       59.23648  (16112816)
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        484737.50   3717937.50       57.27644  (14012208)              484762.50
3717937.50       55.87574  (14012208)
        484787.50   3717937.50       54.34121  (14012208)              484812.50
3717937.50       52.82105  (14012208)
        484837.50   3717937.50       51.39509  (14012208)              484862.50
3717937.50       49.89296  (13020108)
        483412.50   3717962.50       73.49194  (13012508)              483437.50
3717962.50       75.31660  (13012508)
        483462.50   3717962.50       77.11353  (13012508)              483487.50
3717962.50       78.86032  (13012508)
        483512.50   3717962.50       80.45801  (13012508)              483537.50
3717962.50       81.92521  (13012508)
        483562.50   3717962.50       83.43387  (13012508)              483587.50
3717962.50       82.96386  (13012508)
        483612.50   3717962.50       81.23288  (13012508)              484512.50
3717962.50       74.66612  (16112816)
        484537.50   3717962.50       72.41646  (14012208)              484562.50
3717962.50       70.77837  (14012208)
        484587.50   3717962.50       69.40653  (14012208)              484612.50
3717962.50       67.68913  (14012208)
        484637.50   3717962.50       66.15633  (14012208)              484662.50
3717962.50       64.42648  (14012208)
        484687.50   3717962.50       63.08652  (14012208)              484712.50
3717962.50       61.55808  (14012208)
        484737.50   3717962.50       59.74261  (13020108)              484762.50
3717962.50       58.20992  (13020108)
        484787.50   3717962.50       56.75169  (13020108)              484812.50
3717962.50       55.26921  (13020108)
        484837.50   3717962.50       53.75525  (13020108)              484862.50
3717962.50       52.23579  (13020108)
        483412.50   3717987.50       75.61107  (13012508)              483437.50
3717987.50       77.24581  (13012508)
        483462.50   3717987.50       78.81073  (13012508)              483487.50
3717987.50       80.29079  (13012508)
        483512.50   3717987.50       81.70783  (13012508)              483537.50
3717987.50       82.92649  (13012508)
        483562.50   3717987.50       82.94162  (13012508)              483587.50
3717987.50       81.85380  (13012508)
        483612.50   3717987.50       80.82424  (13012508)              484512.50
3717987.50       73.16651  (12012408)
        484537.50   3717987.50       72.18023  (14012208)              484562.50
3717987.50       71.24843  (14012208)
        484587.50   3717987.50       69.86864  (14012208)              484612.50
3717987.50       68.68950  (14012208)
        484637.50   3717987.50       66.87215  (14012208)              484662.50
3717987.50       65.57517  (14012208)
        484687.50   3717987.50       63.66906  (14012208)              484712.50
3717987.50       62.55413  (13020108)
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       484737.50   3717987.50       61.21690  (13020108)               484762.50
3717987.50       59.63688  (13020108)
       484787.50   3717987.50       58.18210  (13020108)               484812.50
3717987.50       56.72232  (13020108)
       484837.50   3717987.50       55.31962  (13020108)               484862.50
3717987.50       53.93523  (13020108)
       483412.50   3718012.50       75.98392  (13012508)               483437.50
3718012.50       77.23540  (13012508)
       483462.50   3718012.50       78.37620  (13012508)               483487.50
3718012.50       79.38692  (13012508)
       483512.50   3718012.50       80.28565  (13012508)               483537.50
3718012.50       81.02513  (13012508)
       483562.50   3718012.50       81.48075  (13012508)               483587.50
3718012.50       81.09313  (13012508)
       483612.50   3718012.50       80.84529  (13012508)               483637.50
3718012.50       77.54350  (16010708)
       484512.50   3718012.50       81.40153  (12012408)               484537.50
3718012.50       76.74777  (12012408)
       484562.50   3718012.50       71.57415  (12012408)               484587.50
3718012.50       68.90485  (14012208)
       484612.50   3718012.50       67.38942  (14012208)               484637.50
3718012.50       65.62856  (14012208)
       484662.50   3718012.50       64.35475  (14012208)               484687.50
3718012.50       63.27676  (14012208)
       484712.50   3718012.50       62.31394  (13020108)               484737.50
3718012.50       61.17338  (13020108)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***        09:53:15

                                    PAGE 588
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  GEN1     ***
                                    INCLUDING SOURCE(S):     GEN1        ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
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        484762.50   3718012.50       59.91398  (13020108)              484787.50
3718012.50       58.58360  (13020108)
        484812.50   3718012.50       57.36431  (13020108)              484837.50
3718012.50       56.03771  (13020108)
        484862.50   3718012.50       54.81305  (13020108)              483412.50
3718037.50       74.43155  (13012508)
        483437.50   3718037.50       75.18147  (13012508)              483462.50
3718037.50       75.75722  (13012508)
        483487.50   3718037.50       76.18851  (13012508)              483512.50
3718037.50       76.42028  (13012508)
        483537.50   3718037.50       77.65855  (16010708)              483562.50
3718037.50       80.05637  (16010708)
        483587.50   3718037.50       81.79639  (16010708)              483612.50
3718037.50       82.93511  (16010708)
        483637.50   3718037.50       84.41896  (16010708)              483662.50
3718037.50       84.43296  (16010708)
        484512.50   3718037.50       88.08010  (12012408)              484537.50
3718037.50       83.16020  (12012408)
        484562.50   3718037.50       77.84437  (12012408)              484587.50
3718037.50       72.31902  (12012408)
        484612.50   3718037.50       67.08912  (13011108)              484637.50
3718037.50       65.29003  (13011108)
        484662.50   3718037.50       63.31691  (13011108)              484687.50
3718037.50       62.17034  (13011108)
        484712.50   3718037.50       60.50812  (13011108)              484737.50
3718037.50       59.84225  (13020108)
        484762.50   3718037.50       58.77460  (13020108)              484787.50
3718037.50       57.93639  (13020108)
        484812.50   3718037.50       56.85649  (13020108)              484837.50
3718037.50       55.74018  (13020108)
        484862.50   3718037.50       54.57951  (13020108)              483412.50
3718062.50       70.98895  (13012508)
        483437.50   3718062.50       71.59214  (16010708)              483462.50
3718062.50       73.85360  (16010708)
        483487.50   3718062.50       76.01594  (16010708)              483512.50
3718062.50       78.08022  (16010708)
        483537.50   3718062.50       79.97195  (16010708)              483562.50
3718062.50       81.65094  (16010708)
        483587.50   3718062.50       82.48904  (16010708)              483612.50
3718062.50       82.90787  (16010708)
        483637.50   3718062.50       83.13088  (16010708)              483662.50
3718062.50       87.72775  (16021808)
        484512.50   3718062.50       91.58533  (12012408)              484537.50
3718062.50       87.13349  (12012408)
        484562.50   3718062.50       81.98929  (12012408)              484587.50
3718062.50       75.97828  (12012408)
        484612.50   3718062.50       70.81020  (12012408)              484637.50
3718062.50       65.45586  (12012408)
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        484662.50   3718062.50       62.45353  (13011108)                484687.50
3718062.50       61.30818  (13011108)
        483412.50   3718087.50       72.19310  (16010708)                483437.50
3718087.50       74.11507  (16010708)
        483462.50   3718087.50       75.89712  (16010708)                483487.50
3718087.50       77.50073  (16010708)
        483512.50   3718087.50       78.84700  (16010708)                483537.50
3718087.50       79.97519  (16010708)
        483562.50   3718087.50       80.66546  (16010708)                483587.50
3718087.50       80.68443  (16010708)
        483612.50   3718087.50       80.37814  (16010708)                483637.50
3718087.50       88.22357  (16021808)
        483662.50   3718087.50       97.11446  (16021808)                484512.50
3718087.50       91.51576  (12012408)
        484537.50   3718087.50       87.73823  (12012408)                484562.50
3718087.50       83.59856  (12012408)
        484587.50   3718087.50       78.73969  (12012408)                484612.50
3718087.50       73.76757  (12012408)
        484637.50   3718087.50       68.75005  (12012408)                484662.50
3718087.50       64.04247  (12012408)
        484687.50   3718087.50       60.29589  (12012408)                483412.50
3718112.50       73.62055  (16010708)
        483437.50   3718112.50       74.96350  (16010708)                483462.50
3718112.50       76.06925  (16010708)
        483487.50   3718112.50       76.91949  (16010708)                483512.50
3718112.50       77.42462  (16010708)
        483537.50   3718112.50       77.53617  (16010708)                483562.50
3718112.50       77.11133  (16010708)
        483587.50   3718112.50       79.62204  (16021808)                483612.50
3718112.50       87.67263  (16021808)
        483637.50   3718112.50       96.19699  (16021808)                483662.50
3718112.50      105.14477  (16021808)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***        09:53:15

                                    PAGE 589
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  GEN1     ***
                                    INCLUDING SOURCE(S):     GEN1        ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                                 ** CONC OF PM_10    IN MICROGRAMS/M**3
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**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
483687.50	3718112.50	114.34303	(16021808)	484512.50	3718112.50	89.65045	(12012408)
484537.50	3718112.50	86.36666	(12012408)	484562.50	3718112.50	83.05135	(12012408)
484587.50	3718112.50	78.95625	(12012408)	484612.50	3718112.50	74.75896	(12012408)
484637.50	3718112.50	70.06348	(12012408)	484662.50	3718112.50	65.98017	(12012408)
484687.50	3718112.50	62.29465	(12012408)	483412.50	3718137.50	73.27423	(16010708)
483437.50	3718137.50	73.94627	(16010708)	483462.50	3718137.50	74.32070	(16010708)
483487.50	3718137.50	74.33522	(16010708)	483512.50	3718137.50	73.91532	(16010708)
483537.50	3718137.50	73.80755	(13010408)	483562.50	3718137.50	78.64629	(16021808)
483587.50	3718137.50	86.40306	(16021808)	483612.50	3718137.50	94.47661	(16021808)
483637.50	3718137.50	102.73933	(16021808)	483662.50	3718137.50	110.88878	(16021808)
483687.50	3718137.50	118.70661	(16021808)	484512.50	3718137.50	86.50183	(12012408)
484537.50	3718137.50	83.92036	(12012408)	484562.50	3718137.50	81.51127	(12012408)
484587.50	3718137.50	78.70583	(12012408)	484612.50	3718137.50	74.79579	(12012408)
484637.50	3718137.50	70.70001	(12012408)	484662.50	3718137.50	67.17540	(12012408)
484687.50	3718137.50	63.92059	(12012408)	483412.50	3718162.50	71.21831	(16010708)
483437.50	3718162.50	71.18708	(16010708)	483462.50	3718162.50	70.78440	(16010708)
483487.50	3718162.50	71.35337	(13010408)	483512.50	3718162.50	74.00851	(13010408)
483537.50	3718162.50	78.03084	(16021808)	483562.50	3718162.50	85.12167	(16021808)
483587.50	3718162.50	92.57601	(16021808)	483612.50	3718162.50	100.15482	(16021808)
483637.50	3718162.50	107.32134	(16021808)	483662.50	3718162.50	114.07646	(16021808)
483687.50	3718162.50	119.87105	(16021808)	484512.50	3718162.50	81.63005	(12012408)

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        484537.50   3718162.50       80.62406  (12012408)                484562.50
3718162.50       78.56059  (12012408)
        484587.50   3718162.50       76.34857  (12012408)                484612.50
3718162.50       73.52609  (12012408)
        484637.50   3718162.50       70.48738  (12012408)                484662.50
3718162.50       67.54860  (12012408)
        484687.50   3718162.50       64.85540  (12012408)                484712.50
3718162.50       62.09687  (12012408)
        484737.50   3718162.50       59.56672  (12012408)                484762.50
3718162.50       56.93679  (12012408)
        484787.50   3718162.50       54.30650  (12012408)                484812.50
3718162.50       51.92454  (12012408)
        484837.50   3718162.50       49.61463  (13011108)                484862.50
3718162.50       48.84051  (13011108)
        483412.50   3718187.50       67.69735  (16010708)                483437.50
3718187.50       68.75805  (13010408)
        483462.50   3718187.50       71.36996  (13010408)                483487.50
3718187.50       73.64198  (13010408)
        483512.50   3718187.50       76.98898  (16021808)                483537.50
3718187.50       83.48675  (16021808)
        483562.50   3718187.50       90.21076  (16021808)                484512.50
3718187.50       75.78302  (12012408)
        484537.50   3718187.50       75.46106  (12012408)                484562.50
3718187.50       74.85122  (12012408)
        484587.50   3718187.50       73.68365  (12012408)                484612.50
3718187.50       71.55501  (12012408)
        484637.50   3718187.50       69.32657  (12012408)                484662.50
3718187.50       66.81801  (12012408)
        484687.50   3718187.50       64.57319  (12012408)                484712.50
3718187.50       62.34971  (12012408)
        484737.50   3718187.50       59.95156  (12012408)                484762.50
3718187.50       57.59764  (12012408)
        484787.50   3718187.50       55.29476  (12012408)                484812.50
3718187.50       52.98110  (15121108)
        484837.50   3718187.50       50.89396  (15121108)                484862.50
3718187.50       49.25979  (15121108)
        484162.50   3718212.50       80.97173  (14021908)                484187.50
3718212.50       97.15941  (12121416)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 590
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  GEN1     ***
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CurciVineyardIIICon.ADO
INCLUDING SOURCE(S): GEN1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
484212.50	3718212.50	111.80368	(12121416)	484512.50	3718212.50	78.50272	(12121316)
484537.50	3718212.50	71.97708	(12121316)	484562.50	3718212.50	70.38821	(12012408)
484587.50	3718212.50	69.69575	(12012408)	484612.50	3718212.50	68.56770	(12012408)
484637.50	3718212.50	66.90070	(12012408)	484662.50	3718212.50	65.12498	(12012408)
484687.50	3718212.50	63.35783	(12012408)	484712.50	3718212.50	61.45887	(12012408)
484737.50	3718212.50	59.58358	(12012408)	484762.50	3718212.50	57.67546	(15121108)
484787.50	3718212.50	55.96651	(15121108)	484812.50	3718212.50	54.15047	(15121108)
484837.50	3718212.50	53.07966	(15121108)	484862.50	3718212.50	51.77524	(15121108)
484512.50	3718237.50	80.89084	(12121316)	484537.50	3718237.50	74.83497	(12121316)
484562.50	3718237.50	68.94505	(12121316)	484587.50	3718237.50	65.30716	(12012408)
484612.50	3718237.50	64.93714	(12012408)	484637.50	3718237.50	63.72194	(12012408)
484662.50	3718237.50	62.55257	(12012408)	484687.50	3718237.50	61.22966	(12012408)
484712.50	3718237.50	59.79280	(12012408)	484737.50	3718237.50	58.58162	(15121108)
484762.50	3718237.50	57.42210	(15121108)	484787.50	3718237.50	56.14880	(15121108)
484812.50	3718237.50	54.91441	(15121108)	484837.50	3718237.50	53.96684	(15121108)
484862.50	3718237.50	52.69169	(15121108)	483412.50	3718262.50	70.83618	(13010408)
483437.50	3718262.50	71.89855	(16021808)	484137.50	3718262.50	85.88326	(13010108)
484162.50	3718262.50	78.92922	(14021908)	484212.50	3718262.50	89.23688	(12121416)

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        484512.50   3718262.50       82.04008  (12121316)                484537.50
3718262.50       76.87147  (12121316)
        484562.50   3718262.50       71.35495  (12121316)                484587.50
3718262.50       65.79350  (12121316)
        484612.50   3718262.50       60.54019  (12012408)                484637.50
3718262.50       60.10348  (12012408)
        484662.50   3718262.50       59.32150  (12012408)                484687.50
3718262.50       58.14229  (12012408)
        484712.50   3718262.50       57.34985  (12012408)                484737.50
3718262.50       57.03746  (15121108)
        484762.50   3718262.50       56.48031  (15121108)                484787.50
3718262.50       55.48330  (15121108)
        484812.50   3718262.50       54.75520  (15121108)                484837.50
3718262.50       53.91188  (15121108)
        484862.50   3718262.50       52.92863  (15121108)                483412.50
3718287.50       70.12348  (16021808)
        483437.50   3718287.50       74.56171  (16021808)                484212.50
3718287.50       83.72189  (14021908)
        484512.50   3718287.50       82.03912  (12121316)                484537.50
3718287.50       77.76341  (12121316)
        484562.50   3718287.50       72.64460  (12121316)                484587.50
3718287.50       67.52935  (12121316)
        484612.50   3718287.50       62.41152  (12121316)                484637.50
3718287.50       57.45718  (12121316)
        484662.50   3718287.50       55.67756  (12012408)                484687.50
3718287.50       54.72025  (12012408)
        484712.50   3718287.50       54.33694  (15121108)                484737.50
3718287.50       54.51407  (15121108)
        484762.50   3718287.50       54.40884  (15121108)                484787.50
3718287.50       54.04895  (15121108)
        484812.50   3718287.50       53.44971  (15121108)                484837.50
3718287.50       52.88630  (15121108)
        484862.50   3718287.50       52.28130  (15121108)                483412.50
3718312.50       71.85074  (16021808)
        483437.50   3718312.50       75.52343  (16021808)                484187.50
3718312.50       80.01851  (14021908)
        483412.50   3718337.50       72.67363  (16021808)                483437.50
3718337.50       75.82267  (16021808)
        484187.50   3718337.50       77.64202  (14021908)                483412.50
3718412.50       71.66582  (13011008)
        483437.50   3718412.50       73.01836  (12121808)                483412.50
3718437.50       70.69601  (12121808)
        483437.50   3718437.50       72.91814  (12121808)                484462.50
3718462.50       73.94090  (12121416)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: GEN1 ***
INCLUDING SOURCE(S): GEN1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
484487.50	3718462.50	71.97617	(12121416)	484462.50	3718487.50	67.82284	(12121416)
484487.50	3718487.50	67.82171	(12121416)				

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: GEN2 ***
INCLUDING SOURCE(S): GEN2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
481950.00	3715450.00	10.73926	(12010408)	482050.00	3715450.00	10.92978	(13122408)
482150.00	3715450.00	10.91296	(13122408)	482250.00	3715450.00	11.40067	(14011708)

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        482350.00   3715450.00       11.68531  (14011708)              482450.00
3715450.00       11.62469  (15122508)
        482550.00   3715450.00       11.75818  (15122508)              482650.00
3715450.00       12.02902  (14010808)
        482750.00   3715450.00       12.48340  (14010108)              482850.00
3715450.00       12.69762  (14010108)
        482950.00   3715450.00       12.39486  (15121608)              483050.00
3715450.00       13.19447  (14123008)
        483150.00   3715450.00       13.53652  (14123008)              483250.00
3715450.00       13.75774  (13020508)
        483350.00   3715450.00       13.98342  (13020508)              483450.00
3715450.00       14.30745  (14010208)
        483550.00   3715450.00       14.48022  (16122908)              483650.00
3715450.00       14.36112  (16122908)
        483750.00   3715450.00       14.75472  (16010408)              483850.00
3715450.00       14.89572  (16010408)
        483950.00   3715450.00       14.89360  (15011408)              484050.00
3715450.00       14.74246  (13011608)
        484150.00   3715450.00       14.84490  (13122708)              484250.00
3715450.00       14.86040  (16122808)
        484350.00   3715450.00       15.15246  (15011308)              484450.00
3715450.00       14.97214  (15011308)
        481950.00   3715550.00       11.11900  (12010408)              482050.00
3715550.00       11.32826  (12010408)
        482150.00   3715550.00       11.40590  (13122408)              482250.00
3715550.00       11.71323  (13122408)
        482350.00   3715550.00       11.95739  (14011708)              482550.00
3715550.00       12.36974  (15122508)
        482650.00   3715550.00       12.51021  (14010808)              482750.00
3715550.00       12.90005  (14010108)
        482850.00   3715550.00       13.25904  (14010108)              482950.00
3715550.00       13.25485  (14010108)
        483050.00   3715550.00       13.64973  (14123008)              483150.00
3715550.00       14.25947  (14123008)
        483250.00   3715550.00       14.40193  (14012308)              483350.00
3715550.00       14.77289  (13020508)
        483450.00   3715550.00       14.97606  (14010208)              483550.00
3715550.00       15.23162  (14010208)
        483650.00   3715550.00       15.30144  (16122908)              483750.00
3715550.00       15.50056  (16010408)
        483850.00   3715550.00       15.81891  (16010408)              483950.00
3715550.00       15.80976  (15011408)
        484050.00   3715550.00       15.71092  (13011608)              484250.00
3715550.00       15.79158  (16122808)
        484350.00   3715550.00       15.75551  (15011308)              484450.00
3715550.00       15.59766  (13122608)
        484550.00   3715550.00       16.36302  (13122608)              484950.00
3715550.00       31.10891  (15012908)
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        485050.00   3715550.00       30.77678  (15012908)                481950.00
3715650.00       11.40117  (12010408)
        482050.00   3715650.00       11.79455  (12010408)                482150.00
3715650.00       11.99047  (12010408)
        482250.00   3715650.00       12.20459  (13122408)                482350.00
3715650.00       12.28967  (14011708)
        482450.00   3715650.00       12.75668  (14011708)                482650.00
3715650.00       13.21416  (15122508)
        482750.00   3715650.00       13.55348  (14010808)                482850.00
3715650.00       13.96983  (14010108)
        482950.00   3715650.00       14.03683  (14010108)                483050.00
3715650.00       13.87464  (14123008)
        483150.00   3715650.00       14.88574  (14123008)                483250.00
3715650.00       15.23829  (14123008)
        483350.00   3715650.00       15.68311  (13020508)                483450.00
3715650.00       15.73486  (14010208)
        483550.00   3715650.00       16.21799  (14010208)                483650.00
3715650.00       16.19501  (16122908)
        483750.00   3715650.00       16.47831  (16010408)                483850.00
3715650.00       16.56878  (16010408)
        483950.00   3715650.00       16.77092  (15011408)                484050.00
3715650.00       16.40953  (13011608)
        484150.00   3715650.00       16.58641  (13122708)                484350.00
3715650.00       16.94069  (15011308)
        484450.00   3715650.00       16.48534  (13122608)                484550.00
3715650.00       16.89587  (13122608)
        484650.00   3715650.00       16.86737  (13123008)                484750.00
3715650.00       17.65120  (14012108)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 593
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  GEN2     ***
                                  INCLUDING SOURCE(S):     GEN2        ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
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        483550.00   3715850.00       18.24519  (14010208)                483650.00
3715850.00       18.43921  (16122908)
        483750.00   3715850.00       18.55648  (16010408)                483850.00
3715850.00       19.04132  (16010408)
        483950.00   3715850.00       18.78908  (15011408)                484050.00
3715850.00       18.84494  (13011608)
        484150.00   3715850.00       18.87524  (13122708)                484250.00
3715850.00       18.69185  (15010508)
        484550.00   3715850.00       18.58210  (13122608)                484650.00
3715850.00       18.32940  (14012108)
        484750.00   3715850.00       18.26410  (14012108)                484850.00
3715850.00       18.36397  (15012908)
        485150.00   3715850.00       17.91000  (14010908)                485250.00
3715850.00       19.05704  (14122508)
        481950.00   3715950.00       12.60898  (13121608)                482050.00
3715950.00       12.78163  (13121608)
        482150.00   3715950.00       13.20218  (13012308)                482250.00
3715950.00       13.89249  (12010408)
        482350.00   3715950.00       14.31853  (12010408)                482450.00
3715950.00       14.60171  (13122408)
        482550.00   3715950.00       15.09990  (13122408)                482650.00
3715950.00       15.55778  (14011708)
        482750.00   3715950.00       15.70250  (15122508)                482850.00
3715950.00       16.23299  (15122508)
        482950.00   3715950.00       16.84360  (14010808)                483050.00
3715950.00       17.46770  (14010108)
        483350.00   3715950.00       18.46064  (14123008)                483450.00
3715950.00       19.10539  (13020508)
        483550.00   3715950.00       19.28832  (14010208)                483650.00
3715950.00       19.65661  (16122908)
        483750.00   3715950.00       19.53739  (16122908)                483850.00
3715950.00       20.50023  (16010408)
        483950.00   3715950.00       20.03690  (15011408)                484050.00
3715950.00       20.06370  (13011608)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***        09:53:15

                                   PAGE 594
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  GEN2     ***
                                   INCLUDING SOURCE(S):     GEN2        ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***
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** CONC OF PM_10 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
484150.00	3715950.00	20.38506	(16122808)	484250.00	3715950.00	20.14302	(15011308)
484850.00	3715950.00	19.31866	(15012908)	485150.00	3715950.00	18.95811	(14122508)
485250.00	3715950.00	20.60702	(15010808)	481950.00	3716050.00	12.82587	(13121608)
482050.00	3716050.00	13.35990	(13121608)	482150.00	3716050.00	13.83452	(13121608)
482250.00	3716050.00	14.33946	(13012308)	482350.00	3716050.00	14.88756	(12010408)
482450.00	3716050.00	15.38568	(12010408)	482550.00	3716050.00	15.90785	(13122408)
482650.00	3716050.00	16.29002	(14011708)	482750.00	3716050.00	16.75941	(14011708)
482850.00	3716050.00	17.30586	(15122508)	482950.00	3716050.00	17.59336	(14010808)
483050.00	3716050.00	18.36905	(14010108)	483150.00	3716050.00	18.58612	(14010108)
483350.00	3716050.00	19.69911	(14123008)	483450.00	3716050.00	20.28846	(13020508)
483550.00	3716050.00	20.48001	(14010208)	483650.00	3716050.00	20.97169	(14010208)
483750.00	3716050.00	21.26298	(16122908)	483850.00	3716050.00	21.91872	(16010408)
483950.00	3716050.00	21.68957	(15011408)	484050.00	3716050.00	21.39337	(13122708)
484150.00	3716050.00	21.96812	(16122808)	484250.00	3716050.00	21.66083	(15011308)
484450.00	3716050.00	21.19960	(13122608)	484750.00	3716050.00	20.68292	(15012908)
484850.00	3716050.00	20.21540	(15012908)	485050.00	3716050.00	19.57068	(14010908)
485150.00	3716050.00	19.71724	(14122508)	485250.00	3716050.00	20.85090	(15010808)
485350.00	3716050.00	19.01820	(13020708)	485450.00	3716050.00	20.00404	(14012408)
481950.00	3716150.00	12.80102	(13121608)	482050.00	3716150.00	13.74571	(13121608)
482150.00	3716150.00	14.47810	(13121608)	482250.00	3716150.00	15.01579	(13121608)

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        482350.00   3716150.00       15.53844  (13012308)                482450.00
3716150.00       16.14975  (12010408)
        482550.00   3716150.00       16.64472  (12010408)                482650.00
3716150.00       17.25019  (13122408)
        482750.00   3716150.00       17.75582  (14011708)                482850.00
3716150.00       18.25477  (14011708)
        482950.00   3716150.00       18.87035  (15122508)                483050.00
3716150.00       19.39417  (14010808)
        483150.00   3716150.00       19.97265  (14010108)                483450.00
3716150.00       21.46336  (14012308)
        483550.00   3716150.00       22.12215  (13020508)                483650.00
3716150.00       22.61240  (14010208)
        483750.00   3716150.00       23.01182  (16122908)                483850.00
3716150.00       23.51774  (16010408)
        483950.00   3716150.00       23.47232  (15011408)                484150.00
3716150.00       23.64448  (16122808)
        484250.00   3716150.00       23.43695  (15011308)                484350.00
3716150.00       23.05526  (13122608)
        484450.00   3716150.00       22.85587  (13122608)                484850.00
3716150.00       21.16924  (13010908)
        484950.00   3716150.00       20.71738  (14010908)                485150.00
3716150.00       20.34925  (15010808)
        485250.00   3716150.00       19.64374  (13020708)                485350.00
3716150.00       19.65804  (14012408)
        485450.00   3716150.00       20.47407  (14012408)                481950.00
3716250.00       12.82697  (14120908)
        482050.00   3716250.00       13.78544  (13121608)                482150.00
3716250.00       14.93384  (13121608)
        482250.00   3716250.00       15.76461  (13121608)                482350.00
3716250.00       16.28023  (13121608)
        482450.00   3716250.00       16.80185  (13012308)                482550.00
3716250.00       17.57298  (12010408)
        482650.00   3716250.00       18.11158  (12010408)                482750.00
3716250.00       18.78776  (13122408)
        482850.00   3716250.00       19.57124  (14011708)                482950.00
3716250.00       20.01461  (14011708)
        483050.00   3716250.00       20.53178  (15122508)                483150.00
3716250.00       21.32229  (14010108)
        483450.00   3716250.00       23.00245  (14123008)                483550.00
3716250.00       23.83150  (13020508)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***        09:53:15

                                   PAGE 595
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: GEN2 ***

INCLUDING SOURCE(S): GEN2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
483650.00	3716250.00	24.44271	(14010208)	483750.00	3716250.00	24.89536	(16122908)
483850.00	3716250.00	25.32362	(16010408)	483950.00	3716250.00	25.21245	(15011408)
484150.00	3716250.00	26.36087	(16122808)	484850.00	3716250.00	22.64625	(13010908)
484950.00	3716250.00	22.87211	(14122508)	485050.00	3716250.00	21.56125	(15010808)
485150.00	3716250.00	20.92521	(13020708)	485250.00	3716250.00	20.39079	(14012408)
485350.00	3716250.00	21.28748	(14012408)	481950.00	3716350.00	14.04661	(14120908)
482050.00	3716350.00	14.37462	(14120908)	482150.00	3716350.00	14.98519	(13121608)
482250.00	3716350.00	16.60053	(13121608)	482350.00	3716350.00	17.27395	(13121608)
482450.00	3716350.00	17.79852	(13121608)	482550.00	3716350.00	18.36453	(13012308)
482650.00	3716350.00	19.27689	(12010408)	482750.00	3716350.00	19.88966	(12010408)
482850.00	3716350.00	20.60796	(13122408)	482950.00	3716350.00	21.59273	(14011708)
483050.00	3716350.00	22.10843	(15122508)	483150.00	3716350.00	22.68400	(14010808)
483450.00	3716350.00	24.83546	(14123008)	483550.00	3716350.00	25.61332	(13020508)
483650.00	3716350.00	26.26807	(14010208)	483750.00	3716350.00	27.04991	(16122908)
483850.00	3716350.00	27.43085	(16010408)	483950.00	3716350.00	27.40381	(15011408)
484850.00	3716350.00	24.30856	(14010908)	484950.00	3716350.00	25.12881	(14122508)
481950.00	3716450.00	15.27733	(12123108)	482550.00	3716450.00	19.71638	(13121608)

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        482650.00   3716450.00       20.35899  (13012308)                482750.00
3716450.00       21.35148  (12010408)
        482850.00   3716450.00       21.71121  (13122408)                482950.00
3716450.00       22.95211  (13122408)
        483050.00   3716450.00       24.20329  (14011708)                483150.00
3716450.00       24.69905  (15122508)
        483450.00   3716450.00       26.74701  (14123008)                483550.00
3716450.00       27.51723  (14012308)
        483650.00   3716450.00       28.33683  (13020508)                483750.00
3716450.00       29.27982  (16122908)
        483850.00   3716450.00       29.74511  (16010408)                483950.00
3716450.00       29.94506  (16010408)
        484050.00   3716450.00       29.78287  (13122708)                485150.00
3716450.00       24.98275  (14012408)
        482650.00   3716550.00       22.53252  (13121608)                482750.00
3716550.00       22.80753  (13012308)
        482850.00   3716550.00       23.47237  (12010408)                482950.00
3716550.00       25.39029  (13122408)
        483450.00   3716550.00       28.46956  (14010108)                483550.00
3716550.00       30.47290  (14123008)
        483650.00   3716550.00       31.20360  (13020508)                483750.00
3716550.00       32.44215  (14010208)
        483850.00   3716550.00       32.54040  (16010408)                483950.00
3716550.00       33.24934  (16010408)
        484050.00   3716550.00       32.90355  (13122708)                484950.00
3716550.00       26.23022  (13020708)
        485050.00   3716550.00       27.49354  (14012408)                485150.00
3716550.00       29.41632  (14012408)
        482850.00   3716650.00       24.99098  (13012308)                482950.00
3716650.00       27.13749  (12010408)
        483450.00   3716650.00       31.49350  (14010108)                483550.00
3716650.00       33.03081  (14123008)
        483650.00   3716650.00       34.67080  (13020508)                483750.00
3716650.00       36.42529  (14010208)
        483850.00   3716650.00       36.22257  (16122908)                483950.00
3716650.00       37.21927  (16010408)
        484050.00   3716650.00       36.77946  (13122708)                485250.00
3716650.00       26.17838  (15123108)
        481950.00   3716750.00       16.10569  (12120608)                482650.00
3716750.00       25.32665  (13121608)
        482750.00   3716750.00       27.61876  (13121608)                482850.00
3716750.00       27.25151  (13121608)
        482950.00   3716750.00       29.51999  (13012308)                483050.00
3716750.00       31.11257  (12010408)
        483150.00   3716750.00       33.70450  (13122408)                483450.00
3716750.00       35.03603  (14010108)
```

*** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: GEN2   ***
INCLUDING SOURCE(S):   GEN2   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10   IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
483550.00	3716750.00	36.01957	(14123008)	483650.00	3716750.00	40.74708	(14123008)
483750.00	3716750.00	42.49932	(14010208)	483850.00	3716750.00	41.01491	(16122908)
483950.00	3716750.00	41.73518	(16010408)	484050.00	3716750.00	41.20660	(13122708)
485150.00	3716750.00	28.05574	(15123108)	485250.00	3716750.00	25.88459	(15123108)
485350.00	3716750.00	23.92389	(16121208)	485450.00	3716750.00	24.63475	(16121208)
485550.00	3716750.00	25.82607	(16121208)	485650.00	3716750.00	23.34944	(16121208)
481950.00	3716850.00	16.56706	(12011608)	482050.00	3716850.00	17.14605	(12120608)
482150.00	3716850.00	18.50870	(12120608)	482650.00	3716850.00	27.92129	(14120908)
482750.00	3716850.00	27.94007	(13121608)	482850.00	3716850.00	30.01965	(13121608)
482950.00	3716850.00	33.47232	(13121608)	483050.00	3716850.00	37.05364	(13012308)
483150.00	3716850.00	37.35863	(12010408)	483250.00	3716850.00	36.39890	(13122408)
484050.00	3716850.00	50.42995	(13122708)	485550.00	3716850.00	26.64906	(14011608)
485650.00	3716850.00	24.25715	(14011608)	481950.00	3716950.00	17.79639	(12011608)
482050.00	3716950.00	18.30638	(12011608)	482150.00	3716950.00	19.01875	(12011608)

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        482250.00   3716950.00       20.01423  (12120608)              482350.00
3716950.00       21.97957  (12120608)
        482450.00   3716950.00       23.98258  (12120608)              483150.00
3716950.00       40.39071  (13012308)
        483250.00   3716950.00       40.68197  (12010408)              485550.00
3716950.00       26.31203  (14011608)
        485650.00   3716950.00       24.03660  (14013008)              481950.00
3717050.00       18.32631  (12011608)
        482050.00   3717050.00       19.34012  (12011608)              482150.00
3717050.00       20.58787  (12011608)
        482250.00   3717050.00       21.86105  (12011608)              482350.00
3717050.00       22.62164  (12011608)
        482450.00   3717050.00       23.84437  (12120608)              482550.00
3717050.00       26.09749  (12120608)
        482650.00   3717050.00       28.42156  (12120608)              482850.00
3717050.00       32.99630  (12123108)
        482950.00   3717050.00       37.80553  (14120908)              483250.00
3717050.00       50.33923  (13012308)
        485350.00   3717050.00       30.38925  (14011608)              485450.00
3717050.00       29.12708  (14011608)
        485550.00   3717050.00       26.63658  (14013008)              485650.00
3717050.00       24.74660  (14013008)
        486250.00   3717050.00       30.99237  (13013008)              481950.00
3717150.00       17.62568  (12011608)
        482050.00   3717150.00       19.59596  (12011608)              482150.00
3717150.00       21.66752  (12011608)
        482250.00   3717150.00       22.63973  (12011608)              482350.00
3717150.00       24.20471  (12011608)
        482450.00   3717150.00       26.00818  (12011608)              482550.00
3717150.00       26.51378  (12011608)
        482650.00   3717150.00       28.90185  (12120608)              482750.00
3717150.00       32.22918  (12120608)
        482850.00   3717150.00       34.51023  (12120608)              482950.00
3717150.00       37.49875  (12123108)
        483050.00   3717150.00       43.51737  (14120908)              485350.00
3717150.00       31.42442  (14013008)
        485450.00   3717150.00       29.31891  (14013008)              485550.00
3717150.00       26.09657  (14012908)
        485650.00   3717150.00       24.62631  (14012908)              481950.00
3717250.00       18.85128  (15122308)
        482050.00   3717250.00       19.56293  (15122308)              482150.00
3717250.00       20.45520  (15122308)
        482250.00   3717250.00       23.35941  (12011608)              482350.00
3717250.00       25.72255  (12011608)
        482450.00   3717250.00       26.86077  (12011608)              482550.00
3717250.00       28.81122  (12011608)
        482650.00   3717250.00       31.16443  (12011608)              482750.00
3717250.00       33.89478  (12011608)
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        482850.00   3717250.00   35.90847 (12120608)   482950.00
3717250.00   38.95834 (12120608)
        483050.00   3717250.00   43.64379 (12120608)   483150.00
3717250.00   49.47666 (12123108)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN2   ***
                                    INCLUDING SOURCE(S):   GEN2   ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                           ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
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        483450.00   3717350.00       68.36570  (13121608)              483850.00
3717350.00      100.71617  (14123008)
        483950.00   3717350.00      108.72240  (16122908)              484050.00
3717350.00      116.34458  (16011208)
        484650.00   3717350.00       68.59021  (16122708)              484750.00
3717350.00       64.69087  (16121208)
        486050.00   3717350.00       19.60953  (12121008)              486150.00
3717350.00       18.74010  (12121008)
        486250.00   3717350.00       17.82944  (12121008)              481950.00
3717450.00       20.46962  (15122308)
        482050.00   3717450.00       21.84429  (15122308)              482150.00
3717450.00       22.90551  (15122308)
        482250.00   3717450.00       25.34260  (15122308)              482350.00
3717450.00       26.88334  (15122308)
        482450.00   3717450.00       28.85921  (15122308)              482750.00
3717450.00       37.11882  (15122308)
        482850.00   3717450.00       40.61358  (12011608)              482950.00
3717450.00       43.77651  (12011608)
        483050.00   3717450.00       48.05446  (12011608)              483150.00
3717450.00       52.66728  (12011608)
        483250.00   3717450.00       59.44132  (12120608)              483350.00
3717450.00       68.26227  (12120608)
        483450.00   3717450.00       74.48075  (14120908)              483550.00
3717450.00       83.43830  (13121608)
        483850.00   3717450.00      106.01676  (14010108)              483950.00
3717450.00      128.06292  (15012608)
        484050.00   3717450.00      129.46576  (16020408)              484550.00
3717450.00       89.08609  (16121208)
        484650.00   3717450.00       87.48932  (16121208)              484750.00
3717450.00       72.27782  (14011608)
        481950.00   3717550.00       20.25523  (12020108)              482050.00
3717550.00       21.57222  (15122308)
        482150.00   3717550.00       23.41086  (15122308)              482250.00
3717550.00       25.07066  (15122308)
        482350.00   3717550.00       27.39295  (15122308)              482450.00
3717550.00       29.86628  (15122308)
        482750.00   3717550.00       40.22072  (15122308)              482850.00
3717550.00       42.90669  (15122308)
        482950.00   3717550.00       44.58980  (15122308)              483050.00
3717550.00       48.03744  (15122308)
        483250.00   3717550.00       64.46521  (12011608)              483350.00
3717550.00       72.19252  (12011608)
        483450.00   3717550.00       88.98903  (12120608)              483550.00
3717550.00       96.35901  (12120608)
        483950.00   3717550.00      181.96603  (15012608)              484050.00
3717550.00      190.28413  (12020608)
        485850.00   3717550.00       22.72781  (14011008)              485950.00
3717550.00       21.45857  (14011008)
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        481950.00   3717650.00       32.82736  (12020108)                482050.00
3717650.00       25.78649  (12020108)
        482150.00   3717650.00       26.07269  (12020108)                482250.00
3717650.00       26.56677  (12020108)
        482350.00   3717650.00       28.41149  (12020108)                482450.00
3717650.00       30.16444  (12020108)
        482550.00   3717650.00       32.68876  (12020108)                482650.00
3717650.00       34.78139  (15122308)
        482750.00   3717650.00       39.24936  (15122308)                482850.00
3717650.00       42.90629  (15122308)
♠ *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***        09:53:15

                                    PAGE 598
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  GEN2     ***
                                    INCLUDING SOURCE(S):     GEN2        ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        482950.00   3717650.00       47.28940  (15122308)                483350.00
3717650.00       75.80401  (15122308)
        484550.00   3717650.00      103.44144  (14012908)                484650.00
3717650.00       87.70191  (14012908)
        484750.00   3717650.00       76.54707  (12121008)                484850.00
3717650.00       65.68175  (12121008)
        485150.00   3717650.00       45.47177  (14011008)                485450.00
3717650.00       31.05895  (14011008)
        485550.00   3717650.00       29.04965  (12010508)                482250.00
3717750.00       30.35550  (12020108)
        482350.00   3717750.00       41.58172  (12020108)                482450.00
3717750.00       46.26772  (12020108)
        482550.00   3717750.00       46.27704  (12020108)                482650.00
3717750.00       46.52009  (12020108)
        482750.00   3717750.00       42.30879  (12020108)                482850.00
3717750.00       45.14375  (12020108)
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        482950.00   3717750.00       49.89196  (12020108)              484550.00
3717750.00      107.62160  (12121008)
        484650.00   3717750.00       90.81161  (14011008)              484750.00
3717750.00       78.87973  (14011008)
        484850.00   3717750.00       67.55251  (12010508)              485150.00
3717750.00       45.58235  (12010508)
        485450.00   3717750.00       31.18634  (12010508)              485550.00
3717750.00       28.78160  (12010508)
        485650.00   3717750.00       26.73797  (12010508)              485750.00
3717750.00       24.39252  (12010508)
        485850.00   3717750.00       22.46644  (12010508)              485950.00
3717750.00       20.92240  (12010508)
        486050.00   3717750.00       19.60936  (12010508)              482250.00
3717850.00       39.47809  (12020108)
        482650.00   3717850.00       54.80841  (12020108)              482750.00
3717850.00       50.72723  (12020108)
        482850.00   3717850.00       45.76197  (12020108)              482950.00
3717850.00       54.43602  (12020108)
        483350.00   3717850.00       86.16717  (12020108)              483450.00
3717850.00      101.13692  (12020108)
        484550.00   3717850.00      117.10194  (12010508)              484650.00
3717850.00       92.55923  (12010508)
        484750.00   3717850.00       78.20847  (12010508)              484850.00
3717850.00       65.57680  (12010508)
        484950.00   3717850.00       55.60456  (12010508)              485150.00
3717850.00       41.54210  (12010508)
        485250.00   3717850.00       36.34279  (12010508)              485450.00
3717850.00       29.33854  (12010508)
        485550.00   3717850.00       26.88189  (12010508)              485650.00
3717850.00       24.58847  (12010508)
        485750.00   3717850.00       22.26638  (12010508)              485850.00
3717850.00       20.76441  (12010508)
        485950.00   3717850.00       19.58564  (12010508)              486050.00
3717850.00       18.04061  (12010508)
        481950.00   3717950.00       26.16418  (15010208)              482250.00
3717950.00       46.75246  (15010208)
        482350.00   3717950.00       44.71349  (15010208)              482750.00
3717950.00       61.42440  (12122108)
        483350.00   3717950.00       89.11778  (13012508)              483450.00
3717950.00      106.53791  (13012508)
        483550.00   3717950.00      132.88392  (13012508)              484550.00
3717950.00      114.53706  (13020108)
        484650.00   3717950.00       94.33560  (13020108)              484750.00
3717950.00       79.05646  (13020108)
        484850.00   3717950.00       67.07085  (13020108)              484950.00
3717950.00       56.55618  (13020108)
        485350.00   3717950.00       32.28150  (13020108)              485450.00
3717950.00       28.48187  (13020108)
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485550.00 3717950.00 26.65219 (13020108) 485650.00 3717950.00 23.60880 (13020108)
485750.00 3717950.00 21.40594 (13020108) 485850.00 3717950.00 20.14438 (13020108)
485950.00 3717950.00 19.00977 (13020108) 486050.00 3717950.00 17.57531 (13020108)
481950.00 3718050.00 28.74814 (12122108) 482050.00 3718050.00 27.72658 (12122108)
482750.00 3718050.00 60.68998 (13012508) 482850.00 3718050.00 60.24106 (13012508)
482950.00 3718050.00 69.61022 (13012508) 483050.00 3718050.00 73.75547 (13012508)
483150.00 3718050.00 82.81033 (13012508) 483250.00 3718050.00 92.34613 (13012508)
483350.00 3718050.00 97.76484 (13012508) 483450.00 3718050.00 110.74616 (16010708)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: GEN2 ***
INCLUDING SOURCE(S): GEN2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
483550.00	3718050.00	123.86245	(16010708)	483650.00	3718050.00	143.84966	(16010708)
484550.00	3718050.00	108.55748	(15121108)	484650.00	3718050.00	89.98061	(13011108)
485450.00	3718050.00	32.19706	(13020108)	485550.00	3718050.00	29.04080	(13020108)
485650.00	3718050.00	25.98392	(13020108)	485750.00	3718050.00	23.64161	(13020108)
485850.00	3718050.00	22.00164	(13020108)	485950.00	3718050.00	20.70456	(13020108)

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        486050.00   3718050.00       19.38884  (13020108)              481950.00
3718150.00       34.39153  (13012508)
        482050.00   3718150.00       31.47398  (13012508)              482150.00
3718150.00       30.73856  (13012508)
        482250.00   3718150.00       36.60189  (13012508)              482350.00
3718150.00       43.92656  (13012508)
        482650.00   3718150.00       60.02506  (13012508)              482750.00
3718150.00       59.92526  (13012508)
        482850.00   3718150.00       68.63612  (13012508)              482950.00
3718150.00       71.91193  (13012508)
        483050.00   3718150.00       75.84056  (16010708)              483150.00
3718150.00       85.36022  (16010708)
        483350.00   3718150.00      102.79091  (16010708)              483450.00
3718150.00      109.76183  (16010708)
        483550.00   3718150.00      129.95418  (13010408)              483650.00
3718150.00      162.94662  (16021808)
        484550.00   3718150.00      102.50961  (15121108)              484650.00
3718150.00       88.22683  (15121108)
        485250.00   3718150.00       38.17823  (13011108)              485550.00
3718150.00       28.67811  (13020108)
        485650.00   3718150.00       26.40891  (13020108)              485750.00
3718150.00       24.44235  (13020108)
        481950.00   3718250.00       39.67238  (13012508)              482050.00
3718250.00       39.54495  (13012508)
        482150.00   3718250.00       36.41717  (13012508)              482250.00
3718250.00       34.68050  (13012508)
        482350.00   3718250.00       43.41558  (13012508)              482450.00
3718250.00       48.65473  (13012508)
        482550.00   3718250.00       50.60821  (13012508)              482650.00
3718250.00       51.33782  (13012508)
        482750.00   3718250.00       57.59542  (16010708)              482850.00
3718250.00       59.30971  (16010708)
        482950.00   3718250.00       61.76861  (16010708)              483250.00
3718250.00       88.69350  (13010408)
        484550.00   3718250.00       92.30348  (12010308)              484650.00
3718250.00       75.84793  (15121108)
        484750.00   3718250.00       71.05930  (15121108)              484850.00
3718250.00       64.19851  (15121108)
        485150.00   3718250.00       39.72450  (13011108)              485250.00
3718250.00       36.78434  (13011108)
        485650.00   3718250.00       26.89832  (13011108)              481950.00
3718350.00       33.98009  (13012508)
        482050.00   3718350.00       34.91694  (13012508)              482150.00
3718350.00       31.08686  (13012508)
        482250.00   3718350.00       27.84309  (16021608)              482350.00
3718350.00       35.75835  (16010708)
        482450.00   3718350.00       46.71386  (16010708)              482550.00
3718350.00       52.78955  (16010708)
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        482650.00   3718350.00       58.03599  (16010708)                482750.00
3718350.00       62.57282  (16010708)
        483150.00   3718350.00       56.78901  (13010408)                483450.00
3718350.00      113.06709  (14121708)
        485250.00   3718350.00       36.75501  (15121108)                485350.00
3718350.00       32.27881  (15121108)
        485550.00   3718350.00       26.74418  (13011108)                485650.00
3718350.00       27.11871  (13011108)
        486150.00   3718350.00       18.54850  (13011108)                486250.00
3718350.00       17.50790  (13011108)
        481950.00   3718450.00       25.91636  (16010708)                482050.00
3718450.00       31.52027  (16010708)
        482150.00   3718450.00       31.24487  (16010708)                482250.00
3718450.00       30.34665  (16010708)
        482350.00   3718450.00       38.27131  (16010708)                482450.00
3718450.00       48.28162  (16010708)
        482550.00   3718450.00       53.10331  (16010708)                482650.00
3718450.00       55.14698  (16010708)
        482750.00   3718450.00       55.52042  (16010708)                482850.00
3718450.00       53.35036  (13010408)
        483350.00   3718450.00       92.25638  (14121708)                484450.00
3718450.00       82.25755  (12121416)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***        09:53:15

                                    PAGE 600
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  GEN2     ***
                                    INCLUDING SOURCE(S):     GEN2        ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                           ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        485150.00   3718450.00       40.98989  (15121108)                485250.00
3718450.00       36.66360  (15121108)
        485350.00   3718450.00       34.20774  (15121108)                485750.00
3718450.00       22.45853  (13011108)
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        485850.00   3718450.00       20.88718  (13011108)              485950.00
3718450.00       19.73842  (13011108)
        486050.00   3718450.00       19.46042  (13011108)              481950.00
3718550.00       27.17798  (16010708)
        482050.00   3718550.00       31.35984  (16010708)              482150.00
3718550.00       35.39431  (16010708)
        482250.00   3718550.00       35.73459  (16010708)              482350.00
3718550.00       37.20497  (16010708)
        482450.00   3718550.00       42.88234  (16010708)              482550.00
3718550.00       43.27816  (16010708)
        482650.00   3718550.00       45.65730  (13010408)              482750.00
3718550.00       55.85640  (13010408)
        482850.00   3718550.00       60.29351  (13010408)              482950.00
3718550.00       55.74030  (13010408)
        483550.00   3718550.00       99.02955  (12010608)              484650.00
3718550.00       65.97226  (14122308)
        484750.00   3718550.00       60.78073  (14122308)              484850.00
3718550.00       53.88319  (12010308)
        485850.00   3718550.00       20.90759  (15121108)              485950.00
3718550.00       19.13767  (15121108)
        482050.00   3718650.00       26.93298  (16010708)              482150.00
3718650.00       29.77812  (16010708)
        482250.00   3718650.00       32.37091  (16010708)              482350.00
3718650.00       33.66107  (16010708)
        482450.00   3718650.00       36.12313  (13010408)              482550.00
3718650.00       42.95077  (13010408)
        482650.00   3718650.00       50.00242  (13010408)              482750.00
3718650.00       53.78238  (13010408)
        482850.00   3718650.00       54.33555  (13010408)              482950.00
3718650.00       60.46785  (14121708)
        485150.00   3718650.00       31.96493  (12010308)              485450.00
3718650.00       28.51844  (15121108)
        485550.00   3718650.00       26.79083  (15121108)              485650.00
3718650.00       24.59125  (15121108)
        485850.00   3718650.00       23.36344  (15121108)              485950.00
3718650.00       20.14592  (15121108)
        486050.00   3718650.00       19.47206  (15121108)              482050.00
3718750.00       21.86795  (16010708)
        482150.00   3718750.00       22.43868  (16010708)              482250.00
3718750.00       25.60770  (13010408)
        482350.00   3718750.00       33.21032  (13010408)              482450.00
3718750.00       39.57145  (13010408)
        482550.00   3718750.00       43.48791  (13010408)              482650.00
3718750.00       44.13414  (13010408)
        482750.00   3718750.00       47.03033  (14121708)              482850.00
3718750.00       54.77619  (14121708)
        482950.00   3718750.00       55.93233  (14121708)              483050.00
3718750.00       52.11101  (14121708)
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        484950.00   3718750.00       43.62479  (14122308)                485050.00
3718750.00       40.23682  (12010308)
        485150.00   3718750.00       36.52233  (12010308)                485850.00
3718750.00       23.64097  (15121108)
        485950.00   3718750.00       21.44136  (15121108)                486050.00
3718750.00       19.92758  (15121108)
        482350.00   3718850.00       33.32487  (13010408)                482450.00
3718850.00       36.07264  (13010408)
        482550.00   3718850.00       35.41913  (13010408)                482650.00
3718850.00       40.46967  (14121708)
        482750.00   3718850.00       47.09844  (14121708)                482850.00
3718850.00       48.83096  (14121708)
        482950.00   3718850.00       43.83799  (12121808)                483050.00
3718850.00       45.99404  (12120308)
        483150.00   3718850.00       39.89011  (12010608)                484150.00
3718850.00       82.64509  (14010608)
        484250.00   3718850.00       71.98130  (14010608)                485350.00
3718850.00       27.16402  (12010308)
        485450.00   3718850.00       22.87882  (12010308)                485750.00
3718850.00       21.66885  (15121108)
        485850.00   3718850.00       21.32515  (15121108)                485950.00
3718850.00       21.39940  (15121108)
        486050.00   3718850.00       19.52638  (15121108)                482450.00
3718950.00       29.55490  (14121708)
        482550.00   3718950.00       35.74808  (14121708)                482650.00
3718950.00       37.99286  (14121708)
        482750.00   3718950.00       39.97591  (14121708)                482850.00
3718950.00       38.17643  (12121808)
♠ *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***        09:53:15

                                    PAGE 601
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  GEN2     ***
                                    INCLUDING SOURCE(S):     GEN2        ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                           ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
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        485150.00   3719350.00       22.08277  (12010208)                484250.00
3719450.00       43.84686  (14010608)
        484350.00   3719450.00       38.25578  (14010608)                484450.00
3719450.00       29.99355  (14010608)
        484550.00   3719450.00       27.20388  (14021908)                484650.00
3719450.00       28.31706  (14021908)
        484750.00   3719450.00       27.67967  (14021908)                484850.00
3719450.00       25.45810  (14021908)
        484950.00   3719450.00       22.30738  (14021908)                485050.00
3719450.00       18.55131  (14021908)
        485150.00   3719450.00       18.92163  (12010208)                485250.00
3719450.00       20.79733  (12010208)
        485350.00   3719450.00       21.94645  (12010208)                485450.00
3719450.00       21.80379  (12010208)
        485550.00   3719450.00       21.61719  (14122308)                484250.00
3719550.00       43.06614  (14010608)
        484350.00   3719550.00       38.37605  (14010608)                484450.00
3719550.00       30.57549  (14010608)
        484550.00   3719550.00       24.40104  (14021908)                484650.00
3719550.00       26.17475  (14021908)
        484750.00   3719550.00       26.01453  (14021908)                484850.00
3719550.00       24.71223  (14021908)
        484950.00   3719550.00       22.33067  (14021908)                485050.00
3719550.00       18.86821  (14021908)
        485150.00   3719550.00       16.78324  (12121416)                485250.00
3719550.00       17.75644  (12010208)
        485350.00   3719550.00       19.80616  (12010208)                485450.00
3719550.00       20.42176  (12010208)
        485550.00   3719550.00       20.47897  (12010208)                484450.00
3719850.00       27.92912  (14010608)
        484550.00   3719850.00       21.83890  (14010608)                484650.00
3719850.00       20.30029  (14021908)
        484350.00   3719950.00       30.86200  (14010608)                484450.00
3719950.00       28.79668  (14010608)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 602
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  GEN2     ***
                                  INCLUDING SOURCE(S):     GEN2        ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***
```

** CONC OF PM_10 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
484550.00	3719950.00	24.81754	(14010608)	484650.00	3719950.00	18.51931	(14021908)
483837.50	3717212.50	83.99931	(13020508)	483862.50	3717212.50	81.72028	(13020508)
483887.50	3717212.50	86.68218	(14010208)	483412.50	3717237.50	65.13973	(13012308)
483812.50	3717237.50	81.86165	(14123008)	483837.50	3717237.50	82.47727	(13020508)
483862.50	3717237.50	83.22550	(13020508)	483887.50	3717237.50	87.36781	(14010208)
483912.50	3717237.50	89.87223	(16122908)	483937.50	3717237.50	91.06727	(16122908)
483412.50	3717262.50	65.37282	(13121608)	483437.50	3717262.50	65.60154	(13012308)
483462.50	3717262.50	65.85813	(13012308)	483812.50	3717262.50	80.10398	(14123008)
483837.50	3717262.50	81.58858	(13020508)	483862.50	3717262.50	83.87645	(13020508)
483887.50	3717262.50	88.13982	(14010208)	483912.50	3717262.50	90.10744	(14010208)
483937.50	3717262.50	91.69127	(16122908)	483962.50	3717262.50	95.64207	(16010408)
483987.50	3717262.50	99.44710	(16010408)	483412.50	3717287.50	65.55913	(13121608)
483437.50	3717287.50	66.08708	(13121608)	483462.50	3717287.50	66.32056	(13012308)
483487.50	3717287.50	66.83462	(13012308)	483812.50	3717287.50	82.59327	(14123008)
483837.50	3717287.50	83.83005	(14123008)	483862.50	3717287.50	86.37703	(13020508)
483887.50	3717287.50	89.59326	(14010208)	483912.50	3717287.50	93.17438	(14010208)
483937.50	3717287.50	95.62262	(16122908)	483962.50	3717287.50	98.20213	(16010408)
483987.50	3717287.50	102.50809	(16010408)	484012.50	3717287.50	104.50010	(16010408)
483412.50	3717312.50	66.03962	(13121608)	483437.50	3717312.50	66.94487	(13121608)
483462.50	3717312.50	67.41125	(13121608)	483487.50	3717312.50	67.67028	(13012308)

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        483512.50   3717312.50       68.44948  (12010408)                483787.50
3717312.50       84.92346  (14010108)
        483812.50   3717312.50       87.21117  (14123008)                483837.50
3717312.50       89.61225  (14123008)
        483862.50   3717312.50       92.18500  (13020508)                483887.50
3717312.50       94.84270  (13020508)
        483912.50   3717312.50       98.16292  (14010208)                483937.50
3717312.50      100.47662  (16122908)
        483962.50   3717312.50      102.42744  (16122908)                483987.50
3717312.50      106.62557  (16010408)
        484012.50   3717312.50      108.65234  (16010408)                484037.50
3717312.50      111.05885  (16011208)
        484562.50   3717312.50       78.97952  (14121608)                484587.50
3717312.50       76.47123  (14121608)
        484612.50   3717312.50       72.80589  (15123108)                484637.50
3717312.50       68.96116  (15123108)
        484662.50   3717312.50       64.47173  (15123108)                484687.50
3717312.50       60.34670  (16122708)
        484712.50   3717312.50       59.39607  (16121208)                484737.50
3717312.50       59.40109  (16121208)
        484762.50   3717312.50       58.90597  (16121208)                483412.50
3717337.50       66.31851  (13121608)
        483437.50   3717337.50       67.79044  (13121608)                483462.50
3717337.50       68.67347  (13121608)
        483487.50   3717337.50       69.51550  (13121608)                483512.50
3717337.50       70.08387  (13012308)
        483537.50   3717337.50       71.92799  (12010408)                483787.50
3717337.50       89.80387  (14010108)
        483812.50   3717337.50       92.18207  (14123008)                483837.50
3717337.50       95.99545  (14123008)
        483862.50   3717337.50       98.63268  (13020508)                483887.50
3717337.50      102.26714  (13020508)
        483912.50   3717337.50      105.17879  (14010208)                483937.50
3717337.50      105.41650  (16122908)
        483962.50   3717337.50      107.15796  (16122908)                483987.50
3717337.50      111.12072  (16010408)
        484012.50   3717337.50      112.71565  (16010408)                484037.50
3717337.50      114.51459  (16011208)
        484562.50   3717337.50       82.41719  (14121608)                484587.50
3717337.50       79.18449  (15123108)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 603
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: GEN2 ***

INCLUDING SOURCE(S): GEN2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
484612.50	3717337.50	74.97320	(15123108)	484637.50	3717337.50	69.92708	(15123108)
484662.50	3717337.50	65.57932	(16122708)	484687.50	3717337.50	64.41635	(16121208)
484712.50	3717337.50	63.62716	(16121208)	484737.50	3717337.50	63.44995	(16121208)
484762.50	3717337.50	62.40015	(16121208)	483412.50	3717362.50	65.85800	(13121608)
483437.50	3717362.50	67.66905	(13121608)	483462.50	3717362.50	69.57886	(13121608)
483487.50	3717362.50	71.26142	(13121608)	483512.50	3717362.50	72.53342	(13121608)
483537.50	3717362.50	74.40054	(13012308)	483787.50	3717362.50	93.17286	(14010108)
483812.50	3717362.50	96.31092	(14010108)	483837.50	3717362.50	101.29344	(14123008)
483862.50	3717362.50	105.90031	(14123008)	483887.50	3717362.50	111.28110	(13020508)
483912.50	3717362.50	114.20650	(15012608)	483937.50	3717362.50	112.61922	(16122908)
483962.50	3717362.50	111.11413	(16122908)	483987.50	3717362.50	114.30710	(16010408)
484012.50	3717362.50	115.87274	(16010408)	484037.50	3717362.50	117.60999	(16011208)
484562.50	3717362.50	84.22601	(15123108)	484587.50	3717362.50	80.58396	(15123108)
484612.50	3717362.50	76.31426	(16122708)	484637.50	3717362.50	71.57618	(16122708)
484662.50	3717362.50	69.90328	(16121208)	484687.50	3717362.50	67.83590	(16121208)
484712.50	3717362.50	67.20249	(16121208)	484737.50	3717362.50	66.66686	(16121208)
484762.50	3717362.50	65.19139	(16121208)	484787.50	3717362.50	62.68513	(14011608)

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        483412.50   3717387.50       65.36249  (14120908)                483437.50
3717387.50       67.39819  (13121608)
        483462.50   3717387.50       70.21592  (13121608)                483487.50
3717387.50       72.54864  (13121608)
        483512.50   3717387.50       74.69614  (13121608)                483537.50
3717387.50       76.96705  (13121608)
        483562.50   3717387.50       78.52590  (13012308)                483787.50
3717387.50       95.47494  (14010108)
        483812.50   3717387.50       99.15851  (14010108)                483837.50
3717387.50      103.17158  (14123008)
        483862.50   3717387.50      110.98358  (14123008)                483887.50
3717387.50      117.93001  (13020508)
        483912.50   3717387.50      120.82720  (15012608)                483937.50
3717387.50      118.15600  (15012608)
        483962.50   3717387.50      115.22284  (16122908)                483987.50
3717387.50      117.50432  (16012608)
        484012.50   3717387.50      119.05535  (16012608)                484037.50
3717387.50      120.21016  (16011208)
        484062.50   3717387.50      120.33535  (16020408)                484562.50
3717387.50       85.65648  (16122708)
        484587.50   3717387.50       81.96734  (16122708)                484612.50
3717387.50       77.67210  (16122708)
        484637.50   3717387.50       76.31411  (16121208)                484662.50
3717387.50       74.62731  (16121208)
        484687.50   3717387.50       72.63477  (16121208)                484712.50
3717387.50       71.09650  (16121208)
        484737.50   3717387.50       69.16032  (16121208)                484762.50
3717387.50       66.97006  (14011608)
        484787.50   3717387.50       64.33122  (14011608)                483412.50
3717412.50       67.83235  (14120908)
        483437.50   3717412.50       68.78757  (14120908)                483462.50
3717412.50       70.65016  (13121608)
        483487.50   3717412.50       73.86166  (13121608)                483512.50
3717412.50       76.71183  (13121608)
        483537.50   3717412.50       79.34534  (13121608)                483562.50
3717412.50       81.53435  (13121608)
        483787.50   3717412.50       97.18869  (14010808)                483812.50
3717412.50      100.47710  (14010108)
        483837.50   3717412.50      102.35629  (14010108)                483862.50
3717412.50      109.62761  (14123008)
        483887.50   3717412.50      114.55071  (13020508)                483912.50
3717412.50      120.04307  (15012608)
        483937.50   3717412.50      121.17746  (15012608)                483962.50
3717412.50      119.42382  (15012608)
        483987.50   3717412.50      121.32177  (16012608)                484012.50
3717412.50      122.64117  (16012608)
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*** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: GEN2   ***
INCLUDING SOURCE(S):   GEN2   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10   IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
484037.50	3717412.50	122.63878	(16011208)	484062.50	3717412.50	123.26206	(16020408)
484487.50	3717412.50	95.00990	(14121608)	484512.50	3717412.50	92.32020	(15123108)
484537.50	3717412.50	89.65116	(16122708)	484562.50	3717412.50	86.76070	(16122708)
484587.50	3717412.50	83.46229	(16121208)	484612.50	3717412.50	83.28863	(16121208)
484637.50	3717412.50	81.43217	(16121208)	484662.50	3717412.50	78.79400	(16121208)
484687.50	3717412.50	76.90188	(16121208)	484712.50	3717412.50	74.29476	(14011608)
484737.50	3717412.50	71.52897	(14011608)	484762.50	3717412.50	68.70216	(14011608)
484787.50	3717412.50	65.65131	(14011608)	483412.50	3717437.50	70.61183	(14120908)
483437.50	3717437.50	72.23134	(14120908)	483462.50	3717437.50	73.63102	(14120908)
483487.50	3717437.50	74.58955	(13121608)	483512.50	3717437.50	78.04875	(13121608)
483537.50	3717437.50	81.20064	(13121608)	483562.50	3717437.50	83.94677	(13121608)
483587.50	3717437.50	85.69499	(13121608)	483837.50	3717437.50	103.65767	(14010108)
483862.50	3717437.50	106.04726	(14123008)	483887.50	3717437.50	109.85787	(14123008)
483912.50	3717437.50	118.75595	(15012608)	483937.50	3717437.50	123.92291	(15012608)

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        483962.50   3717437.50      124.68448  (15012608)              483987.50
3717437.50      125.51878  (16012608)
        484012.50   3717437.50      126.87429  (16012608)              484037.50
3717437.50      125.61764  (16011208)
        484062.50   3717437.50      128.33909  (16020408)              484487.50
3717437.50       96.79292  (15123108)
        484512.50   3717437.50       93.74551  (16122708)              484537.50
3717437.50       90.39707  (16122708)
        484562.50   3717437.50       87.64026  (16121208)              484587.50
3717437.50       88.40198  (16121208)
        484612.50   3717437.50       88.55819  (16121208)              484637.50
3717437.50       86.92967  (16121208)
        484662.50   3717437.50       83.68343  (16121208)              484687.50
3717437.50       80.60658  (14011608)
        484712.50   3717437.50       77.02405  (14011608)              484737.50
3717437.50       73.44555  (14011608)
        484762.50   3717437.50       69.98827  (14011608)              483412.50
3717462.50       73.81925  (12120608)
        483437.50   3717462.50       75.04061  (12123108)              483462.50
3717462.50       76.80278  (14120908)
        483487.50   3717462.50       78.22700  (14120908)              483512.50
3717462.50       78.95147  (14120908)
        483537.50   3717462.50       82.33109  (13121608)              483562.50
3717462.50       85.65232  (13121608)
        483587.50   3717462.50       88.18285  (13121608)              483887.50
3717462.50      115.82589  (14123008)
        483912.50   3717462.50      125.09294  (15012608)              483937.50
3717462.50      131.11178  (15012608)
        483962.50   3717462.50      132.67480  (15012608)              483987.50
3717462.50      132.75480  (16012608)
        484012.50   3717462.50      134.97151  (16012608)              484037.50
3717462.50      133.15748  (12020608)
        484062.50   3717462.50      135.69690  (16020408)              484487.50
3717462.50       98.94142  (16122708)
        484512.50   3717462.50       94.97952  (16122708)              484537.50
3717462.50       91.61517  (16121208)
        484562.50   3717462.50       91.56733  (16121208)              484587.50
3717462.50       91.50163  (16121208)
        484612.50   3717462.50       91.88799  (16121208)              484637.50
3717462.50       90.81788  (16121208)
        484662.50   3717462.50       89.48101  (14011608)              484687.50
3717462.50       84.00006  (14011608)
        484712.50   3717462.50       78.48073  (14011608)              484737.50
3717462.50       74.45268  (14011608)
        484762.50   3717462.50       70.62232  (14011608)              483412.50
3717487.50       76.72977  (12120608)
        483437.50   3717487.50       78.44307  (12120608)              483462.50
3717487.50       79.85177  (12120608)
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        483487.50   3717487.50       81.37287  (14120908)                483512.50
3717487.50       82.99937  (14120908)
        483537.50   3717487.50       84.07216  (14120908)                483562.50
3717487.50       86.40613  (13121608)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***        09:53:15

                                    PAGE 605
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  GEN2     ***
                                    INCLUDING SOURCE(S):     GEN2        ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                           ** CONC OF PM_10    IN MICROGRAMS/M**3
                   **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        483587.50   3717487.50       89.80264  (13121608)                483612.50
3717487.50       92.31645  (13121608)
        483912.50   3717487.50      134.23844  (15012608)                483937.50
3717487.50      141.25828  (15012608)
        483962.50   3717487.50      143.88472  (15012608)                483987.50
3717487.50      143.79011  (16012608)
        484012.50   3717487.50      147.06347  (16012608)                484037.50
3717487.50      145.58530  (12020608)
        484062.50   3717487.50      146.28065  (16020408)                484537.50
3717487.50       96.25165  (16121208)
        484562.50   3717487.50       94.77291  (16121208)                484587.50
3717487.50       93.16309  (16121208)
        484612.50   3717487.50       92.90707  (14011608)                484637.50
3717487.50       92.38007  (14011608)
        484662.50   3717487.50       93.36978  (14011608)                484687.50
3717487.50       87.26320  (14011608)
        484712.50   3717487.50       79.75108  (14011608)                484737.50
3717487.50       75.40424  (14013008)
        484762.50   3717487.50       72.49885  (14013008)                483412.50
3717512.50       79.03648  (12120608)
        483437.50   3717512.50       82.54808  (12120608)                483462.50
3717512.50       84.92561  (12120608)
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        483487.50   3717512.50       85.91067  (12120608)              483512.50
3717512.50       86.44794  (14120908)
        483537.50   3717512.50       88.15933  (14120908)              483562.50
3717512.50       89.42502  (14120908)
        483587.50   3717512.50       90.85782  (13121608)              483612.50
3717512.50       94.37345  (13121608)
        483912.50   3717512.50      145.02962  (12021708)              483937.50
3717512.50      153.89573  (15012608)
        483962.50   3717512.50      158.61262  (15012608)              483987.50
3717512.50      156.68134  (16012608)
        484012.50   3717512.50      161.20571  (16012608)              484037.50
3717512.50      161.91866  (12020608)
        484062.50   3717512.50      161.45260  (16020408)              484537.50
3717512.50       99.80346  (16121208)
        484562.50   3717512.50       97.14827  (16121208)              484587.50
3717512.50       95.20244  (14011608)
        484612.50   3717512.50       93.76226  (14011608)              484637.50
3717512.50       92.19805  (14011608)
        484662.50   3717512.50       89.79715  (14011608)              484687.50
3717512.50       86.42452  (14013008)
        484712.50   3717512.50       82.46801  (14013008)              484737.50
3717512.50       77.91396  (14013008)
        484762.50   3717512.50       74.42401  (14013008)              483412.50
3717537.50       79.94572  (12120608)
        483437.50   3717537.50       86.07453  (12120608)              483462.50
3717537.50       90.22814  (12120608)
        483487.50   3717537.50       91.74322  (12120608)              483512.50
3717537.50       92.34592  (12120608)
        483537.50   3717537.50       93.01769  (12120608)              483562.50
3717537.50       94.00553  (14120908)
        483587.50   3717537.50       95.23075  (14120908)              483612.50
3717537.50       95.52295  (14120908)
        483637.50   3717537.50       99.72886  (13121608)              483937.50
3717537.50      169.36791  (15012608)
        483962.50   3717537.50      175.29322  (15012608)              483987.50
3717537.50      173.68811  (15012608)
        484012.50   3717537.50      177.38512  (16012608)              484037.50
3717537.50      180.81487  (12020608)
        484062.50   3717537.50      179.13180  (16020408)              483412.50
3717562.50       80.48126  (12011608)
        483437.50   3717562.50       85.70497  (12120608)              483462.50
3717562.50       91.14274  (12120608)
        483487.50   3717562.50       94.75113  (12120608)              483512.50
3717562.50       97.12168  (12120608)
        483537.50   3717562.50       98.50777  (12120608)              483562.50
3717562.50       99.63520  (12120608)
        483587.50   3717562.50       99.99687  (14120908)              483612.50
3717562.50      101.13277  (14120908)
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        483637.50   3717562.50      101.67701  (14120908)                483937.50
3717562.50      185.38127  (15012608)
        483962.50   3717562.50      194.74623  (15012608)                483987.50
3717562.50      193.47968  (15012608)
        484012.50   3717562.50      197.69162  (12020608)                484037.50
3717562.50      203.15018  (12020608)
        484062.50   3717562.50      201.12016  (16020408)                483412.50
3717587.50       82.68664  (12011608)
        483437.50   3717587.50       87.23376  (12011608)                483462.50
3717587.50       91.11275  (12011608)
♠ *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***        09:53:15

                                    PAGE 606
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  GEN2     ***
                                    INCLUDING SOURCE(S):     GEN2        ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        483487.50   3717587.50       94.51404  (12120608)                483512.50
3717587.50       99.23429  (12120608)
        483537.50   3717587.50      102.69082  (12120608)                483562.50
3717587.50      105.16608  (12120608)
        483587.50   3717587.50      106.45744  (12120608)                483612.50
3717587.50      106.07889  (12120608)
        483637.50   3717587.50      106.99333  (14120908)                484512.50
3717612.50      108.83093  (14011508)
        484537.50   3717612.50      103.90508  (14013008)                484562.50
3717612.50      100.61987  (14013008)
        484587.50   3717612.50       96.56271  (14013008)                484612.50
3717612.50       93.56214  (14012908)
        484637.50   3717612.50       91.03095  (14012908)                484662.50
3717612.50       88.05358  (14012908)
        484687.50   3717612.50       84.99736  (14012908)                484712.50
3717612.50       81.57653  (14012908)
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        484737.50   3717612.50       77.13487  (14012908)              484762.50
3717612.50       72.84864  (14012908)
        484787.50   3717612.50       69.43068  (12121008)              484812.50
3717612.50       67.05342  (12121008)
        484837.50   3717612.50       63.55119  (12121008)              484862.50
3717612.50       61.22001  (12121008)
        484512.50   3717637.50      110.51125  (14013008)              484537.50
3717637.50      104.62829  (14013008)
        484562.50   3717637.50      100.87204  (14012908)              484587.50
3717637.50       97.64161  (14012908)
        484612.50   3717637.50       94.22139  (14012908)              484637.50
3717637.50       90.42035  (14012908)
        484662.50   3717637.50       87.03253  (14012908)              484687.50
3717637.50       83.31078  (14012908)
        484712.50   3717637.50       79.57534  (12121008)              484737.50
3717637.50       76.69077  (12121008)
        484762.50   3717637.50       73.68575  (12121008)              484787.50
3717637.50       71.27601  (12121008)
        484812.50   3717637.50       68.99477  (12121008)              484837.50
3717637.50       66.23432  (12121008)
        484862.50   3717637.50       63.29437  (12121008)              484512.50
3717662.50      111.02861  (14012908)
        484537.50   3717662.50      106.12515  (14012908)              484562.50
3717662.50      101.23536  (14012908)
        484587.50   3717662.50       96.96804  (14012908)              484612.50
3717662.50       92.76985  (14012908)
        484637.50   3717662.50       88.32788  (14012908)              484662.50
3717662.50       85.83096  (12121008)
        484687.50   3717662.50       84.03797  (12121008)              484712.50
3717662.50       81.91492  (12121008)
        484737.50   3717662.50       79.44760  (12121008)              484762.50
3717662.50       76.23804  (12121008)
        484787.50   3717662.50       75.90179  (12121008)              484812.50
3717662.50       73.33112  (12121008)
        484837.50   3717662.50       68.47901  (12121008)              484862.50
3717662.50       64.54703  (12121008)
        484512.50   3717687.50      112.13526  (14012908)              484537.50
3717687.50      105.50178  (14012908)
        484562.50   3717687.50      100.06347  (14012908)              484587.50
3717687.50       96.19130  (12121008)
        484612.50   3717687.50       93.16071  (12121008)              484637.50
3717687.50       90.16703  (12121008)
        484662.50   3717687.50       87.27948  (12121008)              484687.50
3717687.50       85.08375  (12121008)
        484712.50   3717687.50       82.49997  (12121008)              484737.50
3717687.50       80.10218  (12121008)
        484762.50   3717687.50       78.55808  (12121008)              484787.50
3717687.50       77.64256  (12121008)
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484812.50 3717687.50 76.01757 (12121008) 484837.50 3717687.50 71.55430 (12121008)
484862.50 3717687.50 65.55533 (14011008) 484512.50 3717712.50 115.09473 (13010708)
484537.50 3717712.50 107.51395 (12121008) 484562.50 3717712.50 102.50528 (12121008)
484587.50 3717712.50 98.45337 (12121008) 484612.50 3717712.50 94.72659 (12121008)
484637.50 3717712.50 91.21910 (12121008) 484662.50 3717712.50 87.70415 (12121008)
484687.50 3717712.50 84.59132 (12121008) 484712.50 3717712.50 81.47105 (12121008)
484737.50 3717712.50 78.72384 (14011008) 484762.50 3717712.50 77.07948 (14011008)
484787.50 3717712.50 75.37157 (14011008) 484812.50 3717712.50 74.13560 (14011008)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: GEN2 ***
INCLUDING SOURCE(S): GEN2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
484837.50	3717712.50	71.77367	(14011008)	484862.50	3717712.50	67.50829	(14011008)
484512.50	3717737.50	116.15942	(12121008)	484537.50	3717737.50	109.96398	(12121008)
484562.50	3717737.50	104.50752	(12121008)	484587.50	3717737.50	99.59819	(12121008)
484612.50	3717737.50	95.14492	(12121008)	484637.50	3717737.50	90.96602	(14011008)
484662.50	3717737.50	87.81821	(14011008)	484687.50	3717737.50	84.77090	(14011008)

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        484712.50   3717737.50       82.00087  (14011008)              484737.50
3717737.50       79.65657  (14011008)
        484762.50   3717737.50       77.43809  (14011008)              484787.50
3717737.50       74.79709  (14011008)
        484812.50   3717737.50       72.06342  (14011008)              484837.50
3717737.50       69.39406  (14011008)
        484862.50   3717737.50       66.76451  (14011008)              484512.50
3717762.50      117.47708  (12121008)
        484537.50   3717762.50      111.19976  (14011008)              484562.50
3717762.50      106.40715  (14011008)
        484587.50   3717762.50      102.56081  (14011008)              484612.50
3717762.50       98.18336  (14011008)
        484637.50   3717762.50       93.65771  (14011008)              484662.50
3717762.50       89.78970  (14011008)
        484687.50   3717762.50       86.00213  (14011008)              484712.50
3717762.50       82.74844  (14011008)
        484737.50   3717762.50       80.06121  (12010508)              484762.50
3717762.50       77.93925  (12010508)
        484787.50   3717762.50       75.02682  (12010508)              484812.50
3717762.50       71.54382  (12010508)
        484837.50   3717762.50       68.51154  (12010508)              484862.50
3717762.50       65.89145  (12010508)
        484512.50   3717787.50      120.94487  (14011008)              484537.50
3717787.50      115.47234  (14011008)
        484562.50   3717787.50      111.91604  (14011008)              484587.50
3717787.50      106.68718  (12010508)
        484612.50   3717787.50      100.75374  (12010508)              484637.50
3717787.50       95.75238  (12010508)
        484662.50   3717787.50       91.54468  (12010508)              484687.50
3717787.50       87.86453  (12010508)
        484712.50   3717787.50       84.66754  (12010508)              484737.50
3717787.50       82.18064  (12010508)
        484762.50   3717787.50       79.22278  (12010508)              484787.50
3717787.50       75.92248  (12010508)
        484812.50   3717787.50       72.15485  (12010508)              484837.50
3717787.50       68.29224  (12010508)
        484862.50   3717787.50       65.71383  (12010508)              483412.50
3717812.50       93.79302  (12020108)
        483437.50   3717812.50       97.09011  (12020108)              483462.50
3717812.50      100.56234  (12020108)
        483487.50   3717812.50      104.68301  (12020108)              484512.50
3717812.50      124.94350  (12010508)
        484537.50   3717812.50      122.03006  (12010508)              484562.50
3717812.50      117.28062  (12010508)
        484587.50   3717812.50      110.89808  (12010508)              484612.50
3717812.50      103.15498  (12010508)
        484637.50   3717812.50       96.84837  (12010508)              484662.50
3717812.50       92.33151  (12010508)
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        484687.50   3717812.50       88.56249  (12010508)               484712.50
3717812.50       85.35207  (12010508)
        484737.50   3717812.50       82.39363  (12010508)               484762.50
3717812.50       79.41517  (12010508)
        484787.50   3717812.50       75.83278  (12010508)               484812.50
3717812.50       72.17288  (12010508)
        484837.50   3717812.50       68.53396  (12010508)               484862.50
3717812.50       65.80060  (12010508)
        483412.50   3717837.50       95.32971  (12020108)               483437.50
3717837.50       98.90118  (12020108)
        483462.50   3717837.50      102.75606  (12020108)               483487.50
3717837.50      107.44942  (12020108)
        483512.50   3717837.50      112.75077  (12020108)               484512.50
3717837.50      126.01469  (12010508)
        484537.50   3717837.50      121.61799  (12010508)               484562.50
3717837.50      116.22691  (12010508)
        484587.50   3717837.50      110.39299  (12010508)               484612.50
3717837.50      102.88600  (12010508)
        484637.50   3717837.50       96.26051  (12010508)               484662.50
3717837.50       91.39107  (12010508)
        484687.50   3717837.50       87.66533  (12010508)               484712.50
3717837.50       84.56451  (12010508)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***        09:53:15

                                    PAGE 608
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  GEN2     ***
                                    INCLUDING SOURCE(S):     GEN2        ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        484737.50   3717837.50       81.30028  (12010508)               484762.50
3717837.50       77.95739  (12010508)
        484787.50   3717837.50       74.63199  (12010508)               484812.50
3717837.50       71.13867  (12010508)
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        484837.50   3717837.50       67.98082  (12010508)              484862.50
3717837.50       64.91987  (12010508)
        483412.50   3717862.50       94.93594  (12020108)              483437.50
3717862.50       98.87486  (12020108)
        483462.50   3717862.50      103.52194  (12020108)              483487.50
3717862.50      108.66300  (12020108)
        483512.50   3717862.50      113.75379  (12020108)              484512.50
3717862.50      124.55692  (16112816)
        484537.50   3717862.50      118.25126  (16112816)              484562.50
3717862.50      111.40078  (12010508)
        484587.50   3717862.50      105.85794  (12010508)              484612.50
3717862.50       99.50952  (12010508)
        484637.50   3717862.50       93.39572  (12010508)              484662.50
3717862.50       88.59358  (12010508)
        484687.50   3717862.50       84.87992  (12010508)              484712.50
3717862.50       81.65967  (12010508)
        484737.50   3717862.50       78.22867  (12010508)              484762.50
3717862.50       75.02342  (12010508)
        484787.50   3717862.50       72.03258  (12010508)              484812.50
3717862.50       68.96693  (12010508)
        484837.50   3717862.50       65.86033  (12010508)              484862.50
3717862.50       63.17898  (12010508)
        483412.50   3717887.50       96.57082  (15010208)              483437.50
3717887.50      100.94887  (15010208)
        483462.50   3717887.50      106.62881  (15010208)              483487.50
3717887.50      112.56440  (15010208)
        483512.50   3717887.50      118.00054  (15010208)              483537.50
3717887.50      123.23082  (15010208)
        484512.50   3717887.50      124.08194  (16112816)              484537.50
3717887.50      115.51933  (16112816)
        484562.50   3717887.50      109.04137  (16112816)              484587.50
3717887.50      102.77202  (16112816)
        484612.50   3717887.50       96.31667  (16112816)              484637.50
3717887.50       90.52611  (16112816)
        484662.50   3717887.50       85.06991  (16112816)              484687.50
3717887.50       80.98987  (16112816)
        484712.50   3717887.50       77.28496  (12010508)              484737.50
3717887.50       73.98260  (12010508)
        484762.50   3717887.50       70.98760  (12010508)              484787.50
3717887.50       68.21250  (12010508)
        484812.50   3717887.50       65.60204  (12010508)              484837.50
3717887.50       62.80764  (12010508)
        484862.50   3717887.50       60.26910  (12010508)              483412.50
3717912.50       98.01199  (12122108)
        483437.50   3717912.50      102.30498  (12122108)              483462.50
3717912.50      107.65016  (12122108)
        483487.50   3717912.50      115.85081  (12122108)              483512.50
3717912.50      122.15367  (12122108)
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       483537.50   3717912.50      127.45721  (12122108)                483562.50
3717912.50      131.10610  (12122108)
       484512.50   3717912.50      121.15300  (13020108)                484537.50
3717912.50      114.10798  (13020108)
       484562.50   3717912.50      108.24294  (13020108)                484587.50
3717912.50      102.65150  (13020108)
       484612.50   3717912.50       97.76932  (13020108)                484637.50
3717912.50       92.46446  (13020108)
       484662.50   3717912.50       88.22538  (13020108)                484687.50
3717912.50       83.99632  (13020108)
       484712.50   3717912.50       80.26023  (13020108)                484737.50
3717912.50       76.77691  (13020108)
       484762.50   3717912.50       73.46931  (13020108)                484787.50
3717912.50       70.32960  (13020108)
       484812.50   3717912.50       67.43908  (13020108)                484837.50
3717912.50       64.70743  (13020108)
       484862.50   3717912.50       61.75353  (13020108)                483412.50
3717937.50       98.06046  (12122108)
       483437.50   3717937.50      102.30536  (13012508)                483462.50
3717937.50      107.29483  (13012508)
       483487.50   3717937.50      114.86703  (13012508)                483512.50
3717937.50      122.48910  (13012508)
       483537.50   3717937.50      128.80206  (13012508)                483562.50
3717937.50      135.58537  (13012508)
       483587.50   3717937.50      139.50662  (13012508)                484512.50
3717937.50      123.89807  (13020108)
       484537.50   3717937.50      117.37181  (13020108)                484562.50
3717937.50      111.08805  (13020108)
♠ *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                         ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                        ***        09:53:15

                                   PAGE 609
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  GEN2     ***
                                   INCLUDING SOURCE(S):     GEN2        ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
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        484537.50   3717987.50      115.52276  (13011108)                484562.50
3717987.50      109.99134  (13011108)
        484587.50   3717987.50      104.39558  (13011108)                484612.50
3717987.50      100.19192  (13020108)
        484637.50   3717987.50       95.63711  (13020108)                484662.50
3717987.50       91.93239  (13020108)
        484687.50   3717987.50       87.76823  (13020108)                484712.50
3717987.50       84.67809  (13020108)
        484737.50   3717987.50       81.52215  (13020108)                484762.50
3717987.50       78.27004  (13020108)
        484787.50   3717987.50       75.30215  (13020108)                484812.50
3717987.50       72.46339  (13020108)
        484837.50   3717987.50       69.80538  (13020108)                484862.50
3717987.50       67.27518  (13020108)
        483412.50   3718012.50      105.45105  (13012508)                483437.50
3718012.50      108.45882  (13012508)
        483462.50   3718012.50      112.55941  (13012508)                483487.50
3718012.50      115.14736  (13012508)
        483512.50   3718012.50      116.74392  (13012508)                483537.50
3718012.50      119.24665  (13012508)
        483562.50   3718012.50      124.21105  (16010708)                483587.50
3718012.50      130.73481  (16010708)
        483612.50   3718012.50      138.34689  (16010708)                483637.50
3718012.50      141.17547  (16010708)
        484512.50   3718012.50      118.99021  (13011108)                484537.50
3718012.50      115.06095  (13011108)
        484562.50   3718012.50      110.29336  (13011108)                484587.50
3718012.50      105.13407  (13011108)
        484612.50   3718012.50       99.86777  (13011108)                484637.50
3718012.50       94.66648  (13011108)
        484662.50   3718012.50       90.35878  (13011108)                484687.50
3718012.50       86.55995  (13011108)
        484712.50   3718012.50       83.10986  (13011108)                484737.50
3718012.50       80.09356  (13020108)
*** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                       ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                      ***        09:53:15

                                 PAGE 610
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  GEN2     ***
                                 INCLUDING SOURCE(S):     GEN2        ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***
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** CONC OF PM_10 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
484762.50	3718012.50	77.30816	(13020108)	484787.50	3718012.50	74.57986	(13020108)
484812.50	3718012.50	72.08501	(13020108)	484837.50	3718012.50	69.58829	(13020108)
484862.50	3718012.50	67.29263	(13020108)	483412.50	3718037.50	105.00705	(13012508)
483437.50	3718037.50	107.34809	(13012508)	483462.50	3718037.50	110.58246	(16010708)
483487.50	3718037.50	114.92717	(16010708)	483512.50	3718037.50	119.22429	(16010708)
483537.50	3718037.50	121.60345	(16010708)	483562.50	3718037.50	126.14920	(16010708)
483587.50	3718037.50	132.37838	(16010708)	483612.50	3718037.50	140.63086	(16010708)
483637.50	3718037.50	144.16444	(16010708)	483662.50	3718037.50	148.69911	(16010708)
484512.50	3718037.50	117.27081	(12012408)	484537.50	3718037.50	110.83089	(13011108)
484562.50	3718037.50	107.05896	(13011108)	484587.50	3718037.50	102.72479	(13011108)
484612.50	3718037.50	97.93558	(13011108)	484637.50	3718037.50	93.65908	(13011108)
484662.50	3718037.50	89.38768	(13011108)	484687.50	3718037.50	86.27348	(13011108)
484712.50	3718037.50	82.73735	(13011108)	484737.50	3718037.50	79.99314	(13011108)
484762.50	3718037.50	76.84387	(13011108)	484787.50	3718037.50	74.11162	(13011108)
484812.50	3718037.50	71.27986	(13011108)	484837.50	3718037.50	68.55640	(13011108)
484862.50	3718037.50	66.15825	(13020108)	483412.50	3718062.50	106.53129	(16010708)
483437.50	3718062.50	110.89740	(16010708)	483462.50	3718062.50	115.23455	(16010708)
483487.50	3718062.50	119.21865	(16010708)	483512.50	3718062.50	121.90677	(16010708)
483537.50	3718062.50	123.80897	(16010708)	483562.50	3718062.50	124.69440	(16010708)
483587.50	3718062.50	132.58041	(16010708)	483612.50	3718062.50	137.52024	(16010708)

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        483637.50   3718062.50      138.13302  (16010708)                483662.50
3718062.50      143.43777  (13010408)
        484512.50   3718062.50      119.31435  (15121108)                484537.50
3718062.50      113.19270  (15121108)
        484562.50   3718062.50      106.50873  (15121108)                484587.50
3718062.50       99.12629  (15121108)
        484612.50   3718062.50       93.91411  (13011108)                484637.50
3718062.50       89.84477  (13011108)
        484662.50   3718062.50       86.48000  (13011108)                484687.50
3718062.50       83.54511  (13011108)
        483412.50   3718087.50      111.70767  (16010708)                483437.50
3718087.50      115.81953  (16010708)
        483462.50   3718087.50      118.44356  (16010708)                483487.50
3718087.50      120.26174  (16010708)
        483512.50   3718087.50      122.43168  (16010708)                483537.50
3718087.50      122.70882  (16010708)
        483562.50   3718087.50      124.20566  (16010708)                483587.50
3718087.50      127.56261  (16010708)
        483612.50   3718087.50      130.24548  (13010408)                483637.50
3718087.50      138.53711  (13010408)
        483662.50   3718087.50      150.05155  (13010408)                484512.50
3718087.50      118.00250  (15121108)
        484537.50   3718087.50      113.01022  (15121108)                484562.50
3718087.50      107.63430  (15121108)
        484587.50   3718087.50      101.61570  (15121108)                484612.50
3718087.50       95.48263  (15121108)
        484637.50   3718087.50       89.29108  (15121108)                484662.50
3718087.50       83.36501  (15121108)
        484687.50   3718087.50       79.91055  (13011108)                483412.50
3718112.50      114.26366  (16010708)
        483437.50   3718112.50      116.90663  (16010708)                483462.50
3718112.50      117.52375  (16010708)
        483487.50   3718112.50      118.55024  (16010708)                483512.50
3718112.50      119.86287  (16010708)
        483537.50   3718112.50      120.61426  (16010708)                483562.50
3718112.50      125.16213  (13010408)
        483587.50   3718112.50      127.64554  (13010408)                483612.50
3718112.50      134.77430  (13010408)
        483637.50   3718112.50      142.68979  (13010408)                483662.50
3718112.50      159.05666  (16021808)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                         ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 611
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: GEN2 ***

INCLUDING SOURCE(S): GEN2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
483687.50	3718112.50	177.80044	(16021808)	484512.50	3718112.50	114.37881	(15121108)
484537.50	3718112.50	110.37158	(15121108)	484562.50	3718112.50	106.19266	(15121108)
484587.50	3718112.50	101.24079	(15121108)	484612.50	3718112.50	96.12599	(15121108)
484637.50	3718112.50	90.49086	(15121108)	484662.50	3718112.50	85.37755	(15121108)
484687.50	3718112.50	80.63910	(15121108)	483412.50	3718137.50	111.43933	(16010708)
483437.50	3718137.50	113.26764	(16010708)	483462.50	3718137.50	112.90149	(16010708)
483487.50	3718137.50	113.85822	(16010708)	483512.50	3718137.50	118.84055	(13010408)
483537.50	3718137.50	125.33360	(13010408)	483562.50	3718137.50	131.16139	(13010408)
483587.50	3718137.50	136.26936	(13010408)	483612.50	3718137.50	140.68980	(13010408)
483637.50	3718137.50	153.86574	(16021808)	483662.50	3718137.50	166.54571	(16021808)
483687.50	3718137.50	180.42464	(16021808)	484512.50	3718137.50	109.06539	(15121108)
484537.50	3718137.50	106.19643	(15121108)	484562.50	3718137.50	103.27859	(15121108)
484587.50	3718137.50	99.87120	(15121108)	484612.50	3718137.50	95.39172	(15121108)
484637.50	3718137.50	90.62389	(15121108)	484662.50	3718137.50	86.30320	(15121108)
484687.50	3718137.50	82.20108	(15121108)	483412.50	3718162.50	105.64366	(16010708)
483437.50	3718162.50	106.75320	(16010708)	483462.50	3718162.50	111.93344	(13010408)
483487.50	3718162.50	117.22919	(13010408)	483512.50	3718162.50	122.08454	(13010408)

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        483537.50   3718162.50      126.88968  (13010408)                483562.50
3718162.50      132.70736  (13010408)
        483587.50   3718162.50      137.18808  (13010408)                483612.50
3718162.50      149.09537  (16021808)
        483637.50   3718162.50      159.01040  (16021808)                483662.50
3718162.50      169.62265  (16021808)
        483687.50   3718162.50      179.07693  (16021808)                484512.50
3718162.50      101.88181  (15121108)
        484537.50   3718162.50      100.82831  (15121108)                484562.50
3718162.50       98.66640  (15121108)
        484587.50   3718162.50       96.18782  (15121108)                484612.50
3718162.50       93.03028  (15121108)
        484637.50   3718162.50       89.55161  (15121108)                484662.50
3718162.50       86.06314  (15121108)
        484687.50   3718162.50       82.73504  (15121108)                484712.50
3718162.50       79.30062  (15121108)
        484737.50   3718162.50       76.05508  (15121108)                484762.50
3718162.50       72.69902  (15121108)
        484787.50   3718162.50       69.33563  (15121108)                484812.50
3718162.50       66.21727  (15121108)
        484837.50   3718162.50       63.00417  (15121108)                484862.50
3718162.50       59.74217  (15121108)
        483412.50   3718187.50      104.91074  (13010408)                483437.50
3718187.50      111.37409  (13010408)
        483462.50   3718187.50      115.28539  (13010408)                483487.50
3718187.50      118.92754  (13010408)
        483512.50   3718187.50      122.63853  (13010408)                483537.50
3718187.50      124.89019  (13010408)
        483562.50   3718187.50      129.68551  (16021808)                484512.50
3718187.50       95.72896  (12010308)
        484537.50   3718187.50       93.58448  (15121108)                484562.50
3718187.50       93.04527  (15121108)
        484587.50   3718187.50       91.83958  (15121108)                484612.50
3718187.50       89.65462  (15121108)
        484637.50   3718187.50       87.22672  (15121108)                484662.50
3718187.50       84.42685  (15121108)
        484687.50   3718187.50       81.76396  (15121108)                484712.50
3718187.50       79.04972  (15121108)
        484737.50   3718187.50       76.12248  (15121108)                484762.50
3718187.50       73.19657  (15121108)
        484787.50   3718187.50       70.29225  (15121108)                484812.50
3718187.50       67.33458  (15121108)
        484837.50   3718187.50       64.34195  (15121108)                484862.50
3718187.50       61.90271  (15121108)
        484162.50   3718212.50      167.45632  (14021908)                484187.50
3718212.50      166.49994  (14021908)
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: GEN2   ***
                                  INCLUDING SOURCE(S):   GEN2   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                       ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)
 - - -

```
        484812.50   3718237.50       67.17323  (15121108)              484837.50
3718237.50       65.51590  (15121108)
        484862.50   3718237.50       63.56695  (15121108)              483412.50
3718262.50      111.10851  (13010408)
        483437.50   3718262.50      113.10459  (13010408)              484137.50
3718262.50      162.78632  (14010608)
        484162.50   3718262.50      147.23714  (14010608)              484212.50
3718262.50      146.94406  (14021908)
        484512.50   3718262.50      100.53533  (12010308)              484537.50
3718262.50       95.74558  (12010308)
        484562.50   3718262.50       90.25912  (12010308)              484587.50
3718262.50       84.41821  (12010308)
        484612.50   3718262.50       78.40373  (12010308)              484637.50
3718262.50       73.60573  (15121108)
        484662.50   3718262.50       73.10695  (15121108)              484687.50
3718262.50       72.12870  (15121108)
        484712.50   3718262.50       71.35425  (15121108)              484737.50
3718262.50       70.32220  (15121108)
        484762.50   3718262.50       69.03565  (15121108)              484787.50
3718262.50       67.34482  (15121108)
        484812.50   3718262.50       65.94978  (15121108)              484837.50
3718262.50       64.46997  (15121108)
        484862.50   3718262.50       62.88266  (15121108)              483412.50
3718287.50      107.04832  (13010408)
        483437.50   3718287.50      112.61870  (14121708)              484212.50
3718287.50      141.99316  (14021908)
        484512.50   3718287.50       99.31898  (14122308)              484537.50
3718287.50       95.70711  (12010308)
        484562.50   3718287.50       90.97450  (12010308)              484587.50
3718287.50       85.88565  (12010308)
        484612.50   3718287.50       80.50919  (12010308)              484637.50
3718287.50       75.05884  (12010308)
        484662.50   3718287.50       69.63892  (12010308)              484687.50
3718287.50       67.43879  (15121108)
        484712.50   3718287.50       67.02195  (15121108)              484737.50
3718287.50       66.54092  (15121108)
        484762.50   3718287.50       65.79647  (15121108)              484787.50
3718287.50       64.82122  (15121108)
        484812.50   3718287.50       63.63413  (15121108)              484837.50
3718287.50       62.50465  (15121108)
        484862.50   3718287.50       61.35493  (15121108)              483412.50
3718312.50      109.75054  (14121708)
        483437.50   3718312.50      115.05053  (14121708)              484187.50
3718312.50      134.81420  (14021908)
        483412.50   3718337.50      110.70872  (14121708)              483437.50
3718337.50      114.08185  (14121708)
        484187.50   3718337.50      127.77717  (14021908)              483412.50
3718412.50      101.10245  (14121708)
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483437.50 3718412.50 103.13231 (12121808) 483412.50 3718437.50 95.58815 (12121808)
483437.50 3718437.50 99.95270 (12121808) 484462.50 3718462.50 76.58313 (12010208)

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** *** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

PAGE 613
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: GEN2 ***
INCLUDING SOURCE(S): GEN2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
484487.50	3718462.50	78.63653	(12010208)	484462.50	3718487.50	71.14588	(12121416)
484487.50	3718487.50	72.20638	(12010208)				

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** *** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

PAGE 614
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: GEN3 ***
INCLUDING SOURCE(S): GEN3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
481950.00	3715450.00	11.83466	(12010408)	482050.00	3715450.00	12.14121	(13122408)
482150.00	3715450.00	12.18152	(13122408)	482250.00	3715450.00	12.66716	(14011708)
482350.00	3715450.00	12.89075	(14011708)	482450.00	3715450.00	13.00349	(15122508)
482550.00	3715450.00	13.11220	(15122508)	482650.00	3715450.00	13.44488	(14010808)
482750.00	3715450.00	13.85334	(14010108)	482850.00	3715450.00	13.91782	(14010108)
482950.00	3715450.00	13.77112	(15121608)	483050.00	3715450.00	14.51271	(14123008)
483150.00	3715450.00	14.80357	(14123008)	483250.00	3715450.00	15.09553	(13020508)
483350.00	3715450.00	15.27466	(13020508)	483450.00	3715450.00	15.63784	(14010208)
483550.00	3715450.00	15.84550	(16122908)	483650.00	3715450.00	15.69431	(16122908)
483750.00	3715450.00	16.09335	(16010408)	483850.00	3715450.00	16.09993	(16010408)
483950.00	3715450.00	16.11157	(15011408)	484050.00	3715450.00	15.98767	(13011608)
484150.00	3715450.00	16.14996	(13122708)	484250.00	3715450.00	16.11900	(16122808)
484350.00	3715450.00	16.28950	(15011308)	484450.00	3715450.00	15.94150	(13122608)
481950.00	3715550.00	12.27767	(12010408)	482050.00	3715550.00	12.42805	(12010408)
482150.00	3715550.00	12.70042	(13122408)	482250.00	3715550.00	12.93347	(14011708)
482350.00	3715550.00	13.31184	(14011708)	482550.00	3715550.00	13.76467	(15122508)
482650.00	3715550.00	13.93420	(14010808)	482750.00	3715550.00	14.31627	(14010108)
482850.00	3715550.00	14.62492	(14010108)	482950.00	3715550.00	14.40542	(14010108)
483050.00	3715550.00	14.94647	(14123008)	483150.00	3715550.00	15.53235	(14123008)
483250.00	3715550.00	15.68499	(14012308)	483350.00	3715550.00	16.07285	(13020508)
483450.00	3715550.00	16.29495	(14010208)	483550.00	3715550.00	16.55631	(16122908)
483650.00	3715550.00	16.59637	(16122908)	483750.00	3715550.00	16.83570	(16010408)

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        483850.00   3715550.00       16.97276  (16010408)                483950.00
3715550.00       16.96275  (15011408)
        484050.00   3715550.00       16.85468  (13011608)                484250.00
3715550.00       16.94751  (16122808)
        484350.00   3715550.00       16.95340  (15011308)                484450.00
3715550.00       16.66712  (13122608)
        484550.00   3715550.00       17.27198  (13122608)                484950.00
3715550.00       25.54329  (15012908)
        485050.00   3715550.00       25.06443  (15012908)                481950.00
3715650.00       12.57268  (12010408)
        482050.00   3715650.00       12.96012  (12010408)                482150.00
3715650.00       13.15806  (13122408)
        482250.00   3715650.00       13.48099  (13122408)                482350.00
3715650.00       13.67494  (14011708)
        482450.00   3715650.00       14.10769  (14011708)                482650.00
3715650.00       14.57024  (15122508)
        482750.00   3715650.00       14.91430  (14010808)                482850.00
3715650.00       15.33216  (14010108)
        482950.00   3715650.00       15.34154  (14010108)                483050.00
3715650.00       15.28715  (15121608)
        483150.00   3715650.00       16.17600  (14123008)                483250.00
3715650.00       16.38325  (14123008)
        483350.00   3715650.00       16.91504  (13020508)                483450.00
3715650.00       16.97664  (14010208)
        483550.00   3715650.00       17.42675  (14010208)                483650.00
3715650.00       17.51184  (16122908)
        483750.00   3715650.00       17.68776  (16010408)                483850.00
3715650.00       17.81372  (16010408)
        483950.00   3715650.00       17.86505  (15011408)                484050.00
3715650.00       17.62656  (13011608)
        484150.00   3715650.00       17.81662  (13122708)                484350.00
3715650.00       17.93812  (15011308)
        484450.00   3715650.00       17.57980  (13122608)                484550.00
3715650.00       17.82527  (13122608)
        484650.00   3715650.00       17.68212  (13123008)                484750.00
3715650.00       18.43382  (14012108)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***        09:53:15

                                   PAGE 615
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  GEN3     ***
                                   INCLUDING SOURCE(S):     GEN3        ,
```

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
484950.00	3715650.00	21.00372	(15012908)	485050.00	3715650.00	20.65858	(13010908)
481950.00	3715750.00	12.88080	(13012308)	482050.00	3715750.00	13.28741	(12010408)
482150.00	3715750.00	13.58775	(12010408)	482250.00	3715750.00	13.79823	(13122408)
482350.00	3715750.00	14.25409	(13122408)	482450.00	3715750.00	14.65001	(14011708)
482550.00	3715750.00	15.04393	(14011708)	482750.00	3715750.00	15.38916	(14010808)
482850.00	3715750.00	16.01770	(14010108)	482950.00	3715750.00	16.30291	(14010108)
483050.00	3715750.00	16.03449	(14010108)	483150.00	3715750.00	16.83103	(14123008)
483250.00	3715750.00	17.30076	(14123008)	483350.00	3715750.00	17.70786	(13020508)
483450.00	3715750.00	17.77478	(13020508)	483550.00	3715750.00	18.37454	(14010208)
483650.00	3715750.00	18.51980	(16122908)	483750.00	3715750.00	18.52201	(16010408)
483850.00	3715750.00	18.84211	(16010408)	483950.00	3715750.00	18.77626	(15011408)
484050.00	3715750.00	18.66728	(13122708)	484150.00	3715750.00	18.78285	(13122708)
484250.00	3715750.00	18.69241	(15010508)	484550.00	3715750.00	18.41930	(13122608)
484650.00	3715750.00	18.22350	(13123008)	484750.00	3715750.00	18.47457	(14012108)
484850.00	3715750.00	18.38504	(15012908)	484950.00	3715750.00	18.55279	(15012908)
485050.00	3715750.00	18.23268	(13010908)	481950.00	3715850.00	13.27774	(13121608)
482050.00	3715850.00	13.71407	(13012308)	482150.00	3715850.00	13.96488	(12010408)
482250.00	3715850.00	14.48781	(12010408)	482350.00	3715850.00	14.79108	(13122408)
482450.00	3715850.00	15.22030	(13122408)	482550.00	3715850.00	15.69578	(14011708)

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        482650.00   3715850.00       15.93182  (14011708)                482750.00
3715850.00       16.37984  (15122508)
        482850.00   3715850.00       16.67095  (14010808)                482950.00
3715850.00       17.17304  (14010108)
        483050.00   3715850.00       17.19776  (14010108)                483150.00
3715850.00       17.30271  (14123008)
        483350.00   3715850.00       18.43976  (14012308)                483450.00
3715850.00       18.88172  (13020508)
        483550.00   3715850.00       19.32756  (14010208)                483650.00
3715850.00       19.58282  (16122908)
        483750.00   3715850.00       19.50790  (16010408)                483850.00
3715850.00       19.99169  (16010408)
        483950.00   3715850.00       19.82630  (15011408)                484050.00
3715850.00       19.75717  (13122708)
        484150.00   3715850.00       19.88968  (16122808)                484250.00
3715850.00       19.77836  (15010508)
        484550.00   3715850.00       19.33704  (13122608)                484650.00
3715850.00       19.18192  (14012108)
        484750.00   3715850.00       19.05078  (14012108)                484850.00
3715850.00       19.12114  (15012908)
        485150.00   3715850.00       18.64627  (14010908)                485250.00
3715850.00       20.31951  (14122508)
        481950.00   3715950.00       13.78727  (13121608)                482050.00
3715950.00       13.96532  (13121608)
        482150.00   3715950.00       14.43390  (13012308)                482250.00
3715950.00       15.05358  (12010408)
        482350.00   3715950.00       15.44606  (12010408)                482450.00
3715950.00       15.84478  (13122408)
        482550.00   3715950.00       16.21823  (13122408)                482650.00
3715950.00       16.78302  (14011708)
        482750.00   3715950.00       16.98929  (15122508)                482850.00
3715950.00       17.37578  (15122508)
        482950.00   3715950.00       17.91868  (14010808)                483050.00
3715950.00       18.44983  (14010108)
        483350.00   3715950.00       19.38560  (14123008)                483450.00
3715950.00       20.04221  (13020508)
        483550.00   3715950.00       20.28132  (14010208)                483650.00
3715950.00       20.68358  (16122908)
        483750.00   3715950.00       20.39108  (16122908)                483850.00
3715950.00       21.23994  (16010408)
        483950.00   3715950.00       20.97643  (15011408)                484050.00
3715950.00       20.88898  (13122708)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***        09:53:15
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: GEN3 ***
INCLUDING SOURCE(S): GEN3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
484150.00	3715950.00	21.16161	(16122808)	484250.00	3715950.00	21.02545	(15011308)
484850.00	3715950.00	19.98885	(15012908)	485150.00	3715950.00	19.63324	(14122508)
485250.00	3715950.00	22.20446	(15010808)	481950.00	3716050.00	13.99731	(13121608)
482050.00	3716050.00	14.56237	(13121608)	482150.00	3716050.00	14.96020	(13121608)
482250.00	3716050.00	15.49566	(13012308)	482350.00	3716050.00	16.03633	(12010408)
482450.00	3716050.00	16.46219	(12010408)	482550.00	3716050.00	17.04425	(13122408)
482650.00	3716050.00	17.44566	(14011708)	482750.00	3716050.00	17.91832	(14011708)
482850.00	3716050.00	18.39302	(15122508)	482950.00	3716050.00	18.69059	(14010808)
483050.00	3716050.00	19.36100	(14010108)	483150.00	3716050.00	19.44019	(14010108)
483350.00	3716050.00	20.57285	(14123008)	483450.00	3716050.00	21.10327	(13020508)
483550.00	3716050.00	21.27101	(14010208)	483650.00	3716050.00	21.79239	(16122908)
483750.00	3716050.00	21.87363	(16122908)	483850.00	3716050.00	22.50729	(16010408)
483950.00	3716050.00	22.33341	(15011408)	484050.00	3716050.00	22.11943	(13122708)
484150.00	3716050.00	22.51026	(16122808)	484250.00	3716050.00	22.34873	(15011308)
484450.00	3716050.00	21.96789	(13122608)	484750.00	3716050.00	21.26238	(15012908)
484850.00	3716050.00	20.73973	(15012908)	485050.00	3716050.00	20.09309	(14122508)

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        485150.00   3716050.00       20.26397  (14122508)              485250.00
3716050.00       21.94260  (13020708)
        485350.00   3716050.00       19.85021  (13020708)              485450.00
3716050.00       21.35800  (14012408)
        481950.00   3716150.00       13.89133  (13121608)              482050.00
3716150.00       14.88381  (13121608)
        482150.00   3716150.00       15.61532  (13121608)              482250.00
3716150.00       16.06663  (13121608)
        482350.00   3716150.00       16.62297  (13012308)              482450.00
3716150.00       17.21866  (12010408)
        482550.00   3716150.00       17.61953  (12010408)              482650.00
3716150.00       18.29083  (13122408)
        482750.00   3716150.00       18.82402  (14011708)              482850.00
3716150.00       19.20493  (14011708)
        482950.00   3716150.00       19.77060  (15122508)              483050.00
3716150.00       20.25730  (14010808)
        483150.00   3716150.00       20.79222  (14010108)              483450.00
3716150.00       22.10923  (14012308)
        483550.00   3716150.00       22.64320  (13020508)              483650.00
3716150.00       23.20433  (14010208)
        483750.00   3716150.00       23.41417  (16122908)              483850.00
3716150.00       23.89233  (16010408)
        483950.00   3716150.00       23.80275  (15011408)              484150.00
3716150.00       23.94168  (16122808)
        484250.00   3716150.00       23.82058  (15011308)              484350.00
3716150.00       23.38758  (13122608)
        484450.00   3716150.00       23.27040  (13122608)              484850.00
3716150.00       21.60849  (13010908)
        484950.00   3716150.00       21.10412  (14010908)              485150.00
3716150.00       20.80627  (15010808)
        485250.00   3716150.00       20.15062  (13020708)              485350.00
3716150.00       20.17227  (12122508)
        485450.00   3716150.00       21.35718  (14012408)              481950.00
3716250.00       13.66095  (14120908)
        482050.00   3716250.00       14.80293  (13121608)              482150.00
3716250.00       15.98558  (13121608)
        482250.00   3716250.00       16.80955  (13121608)              482350.00
3716250.00       17.25164  (13121608)
        482450.00   3716250.00       17.81542  (13012308)              482550.00
3716250.00       18.53197  (12010408)
        482650.00   3716250.00       18.92821  (13122408)              482750.00
3716250.00       19.67530  (13122408)
        482850.00   3716250.00       20.41930  (14011708)              482950.00
3716250.00       20.78741  (15122508)
        483050.00   3716250.00       21.16035  (15122508)              483150.00
3716250.00       21.98587  (14010108)
        483450.00   3716250.00       23.39521  (14123008)              483550.00
3716250.00       24.15894  (13020508)
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: GEN3 ***
INCLUDING SOURCE(S): GEN3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
483650.00	3716250.00	24.70708	(14010208)	483750.00	3716250.00	25.04742	(16122908)
483850.00	3716250.00	25.40297	(16010408)	483950.00	3716250.00	25.30523	(15011408)
484150.00	3716250.00	25.96428	(16122808)	484850.00	3716250.00	22.68720	(13010908)
484950.00	3716250.00	22.95579	(14122508)	485050.00	3716250.00	21.90016	(15010808)
485150.00	3716250.00	21.29230	(13020708)	485250.00	3716250.00	20.69130	(12122508)
485350.00	3716250.00	21.70869	(14012408)	481950.00	3716350.00	15.00620	(14120908)
482050.00	3716350.00	15.14625	(14120908)	482150.00	3716350.00	15.89544	(13121608)
482250.00	3716350.00	17.51384	(13121608)	482350.00	3716350.00	18.18825	(13121608)
482450.00	3716350.00	18.63450	(13121608)	482550.00	3716350.00	19.23390	(13012308)
482650.00	3716350.00	20.05180	(12010408)	482750.00	3716350.00	20.61148	(13122408)
482850.00	3716350.00	21.23926	(13122408)	482950.00	3716350.00	22.13856	(14011708)
483050.00	3716350.00	22.61903	(15122508)	483150.00	3716350.00	23.13418	(14010808)
483450.00	3716350.00	24.98067	(14123008)	483550.00	3716350.00	25.65217	(13020508)

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        483650.00   3716350.00       26.18324  (14010208)              483750.00
3716350.00       26.81754  (16122908)
        483850.00   3716350.00       27.07201  (16010408)              483950.00
3716350.00       27.04983  (15011408)
        484850.00   3716350.00       24.14436  (14010908)              484950.00
3716350.00       24.88563  (14122508)
        481950.00   3716450.00       16.22427  (14120908)              482550.00
3716450.00       20.32490  (13121608)
        482650.00   3716450.00       20.97078  (13012308)              482750.00
3716450.00       21.83492  (12010408)
        482850.00   3716450.00       22.31387  (13122408)              482950.00
3716450.00       23.27547  (14011708)
        483050.00   3716450.00       24.18169  (14011708)              483150.00
3716450.00       24.64799  (15122508)
        483450.00   3716450.00       26.47036  (14123008)              483550.00
3716450.00       27.11043  (14012308)
        483650.00   3716450.00       27.65153  (13020508)              483750.00
3716450.00       28.62472  (16122908)
        483850.00   3716450.00       28.84922  (16010408)              483950.00
3716450.00       28.97240  (15011408)
        484050.00   3716450.00       28.87376  (13122708)              485150.00
3716450.00       24.63940  (14012408)
        482650.00   3716550.00       22.77514  (13121608)              482750.00
3716550.00       23.05081  (13012308)
        482850.00   3716550.00       23.66161  (12010408)              482950.00
3716550.00       25.20867  (13122408)
        483450.00   3716550.00       27.68142  (15121608)              483550.00
3716550.00       29.23027  (14123008)
        483650.00   3716550.00       29.92468  (13020508)              483750.00
3716550.00       30.77604  (14010208)
        483850.00   3716550.00       30.83041  (16010408)              483950.00
3716550.00       31.20101  (15011408)
        484050.00   3716550.00       31.13491  (13122708)              484950.00
3716550.00       25.82187  (13020708)
        485050.00   3716550.00       26.60284  (12122508)              485150.00
3716550.00       29.43830  (14012408)
        482850.00   3716650.00       24.90407  (13012308)              482950.00
3716650.00       26.54077  (12010408)
        483450.00   3716650.00       29.83329  (14010108)              483550.00
3716650.00       31.23176  (14123008)
        483650.00   3716650.00       32.37578  (13020508)              483750.00
3716650.00       33.51889  (14010208)
        483850.00   3716650.00       33.23898  (16122908)              483950.00
3716650.00       33.91591  (16010408)
        484050.00   3716650.00       33.77028  (13122708)              485250.00
3716650.00       25.69750  (15123108)
        481950.00   3716750.00       17.07149  (12120608)              482650.00
3716750.00       25.63783  (13121608)
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482750.00 3716750.00 27.55661 (13121608) 482850.00 3716750.00 26.68474 (13121608)
482950.00 3716750.00 28.57391 (13012308) 483050.00 3716750.00 29.63012 (12010408)
483150.00 3716750.00 31.75164 (13122408) 483450.00 3716750.00 32.62137 (14010108)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: GEN3 ***
INCLUDING SOURCE(S): GEN3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
483550.00	3716750.00	33.16456	(14123008)	483650.00	3716750.00	36.43355	(14012308)
483750.00	3716750.00	37.58816	(14010208)	483850.00	3716750.00	36.47851	(16122908)
483950.00	3716750.00	36.91082	(16010408)	484050.00	3716750.00	36.65651	(13122708)
485150.00	3716750.00	27.12658	(15123108)	485250.00	3716750.00	25.10722	(15123108)
485350.00	3716750.00	22.92641	(16121208)	485450.00	3716750.00	24.18896	(16121208)
485550.00	3716750.00	26.30094	(16121208)	485650.00	3716750.00	23.66662	(16121208)
481950.00	3716850.00	17.20091	(12011608)	482050.00	3716850.00	17.96724	(12120608)
482150.00	3716850.00	19.29394	(12120608)	482650.00	3716850.00	28.32907	(14120908)
482750.00	3716850.00	27.80735	(13121608)	482850.00	3716850.00	29.24356	(13121608)
482950.00	3716850.00	32.19610	(13121608)	483050.00	3716850.00	35.83233	(13012308)

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        483150.00   3716850.00       34.63586  (12010408)              483250.00
3716850.00       33.45054  (14011708)
        484050.00   3716850.00       42.51133  (13122708)              485550.00
3716850.00       26.74923  (16121208)
        485650.00   3716850.00       24.41078  (14011608)              481950.00
3716950.00       18.62023  (12011608)
        482050.00   3716950.00       18.94436  (12011608)              482150.00
3716950.00       19.40387  (12011608)
        482250.00   3716950.00       20.57784  (12120608)              482350.00
3716950.00       22.40714  (12120608)
        482450.00   3716950.00       24.16315  (12120608)              483150.00
3716950.00       37.22978  (13012308)
        483250.00   3716950.00       36.43078  (13122408)              485550.00
3716950.00       26.04008  (14011608)
        485650.00   3716950.00       23.97331  (14011608)              481950.00
3717050.00       19.23857  (12011608)
        482050.00   3717050.00       20.11227  (12011608)              482150.00
3717050.00       21.17340  (12011608)
        482250.00   3717050.00       22.18782  (12011608)              482350.00
3717050.00       22.57569  (12011608)
        482450.00   3717050.00       23.94997  (12120608)              482550.00
3717050.00       25.91566  (12120608)
        482650.00   3717050.00       27.78379  (12120608)              482850.00
3717050.00       31.39780  (14120908)
        482950.00   3717050.00       36.23843  (14120908)              483250.00
3717050.00       46.32394  (13012308)
        485350.00   3717050.00       29.11586  (14011608)              485450.00
3717050.00       28.31074  (14011608)
        485550.00   3717050.00       26.14414  (14013008)              485650.00
3717050.00       24.63801  (14013008)
        486250.00   3717050.00       24.38298  (13013008)              481950.00
3717150.00       18.44994  (12011608)
        482050.00   3717150.00       20.40409  (12011608)              482150.00
3717150.00       22.44782  (12011608)
        482250.00   3717150.00       23.10353  (12011608)              482350.00
3717150.00       24.37534  (12011608)
        482450.00   3717150.00       25.79811  (12011608)              482550.00
3717150.00       25.74053  (12011608)
        482650.00   3717150.00       28.19063  (12120608)              482750.00
3717150.00       30.94739  (12120608)
        482850.00   3717150.00       32.39429  (12120608)              482950.00
3717150.00       34.60085  (14120908)
        483050.00   3717150.00       40.37581  (14120908)              485350.00
3717150.00       29.76805  (14013008)
        485450.00   3717150.00       28.29617  (14013008)              485550.00
3717150.00       25.61866  (14013008)
        485650.00   3717150.00       24.44253  (14012908)              481950.00
3717250.00       19.53925  (15122308)
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        482050.00   3717250.00       20.00530  (15122308)                482150.00
3717250.00       20.90679  (12011608)
        482250.00   3717250.00       24.07139  (12011608)                482350.00
3717250.00       26.27898  (12011608)
        482450.00   3717250.00       26.78893  (12011608)                482550.00
3717250.00       28.24289  (12011608)
        482650.00   3717250.00       29.96671  (12011608)                482750.00
3717250.00       31.92304  (12011608)
        482850.00   3717250.00       33.69503  (12120608)                482950.00
3717250.00       35.65534  (12120608)
        483050.00   3717250.00       38.72146  (12120608)                483150.00
3717250.00       43.66165  (14120908)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 619
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  GEN3     ***
                                  INCLUDING SOURCE(S):     GEN3        ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        483250.00   3717250.00       47.82458  (13121608)                483350.00
3717250.00       55.37933  (13121608)
        483450.00   3717250.00       52.16177  (12010408)                483850.00
3717250.00       59.35663  (15012608)
        483950.00   3717250.00       65.20328  (16012608)                486150.00
3717250.00       20.93206  (12121008)
        486250.00   3717250.00       20.49994  (12121008)                481950.00
3717350.00       21.11973  (15122308)
        482050.00   3717350.00       21.85075  (15122308)                482150.00
3717350.00       22.61525  (15122308)
        482250.00   3717350.00       24.17424  (15122308)                482350.00
3717350.00       25.44208  (15122308)
        482450.00   3717350.00       26.57517  (12011608)                482550.00
3717350.00       28.45329  (12011608)
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        482650.00   3717350.00       31.59908  (12011608)              482750.00
3717350.00       35.10976  (12011608)
        482850.00   3717350.00       36.40455  (12011608)              482950.00
3717350.00       36.06232  (12011608)
        483050.00   3717350.00       39.60454  (12120608)              483150.00
3717350.00       44.06853  (12120608)
        483250.00   3717350.00       47.08305  (14120908)              483350.00
3717350.00       48.90756  (14120908)
        483450.00   3717350.00       52.13825  (13121608)              483850.00
3717350.00       66.70913  (15012608)
        483950.00   3717350.00       71.90924  (15012608)              484050.00
3717350.00       82.65025  (12020608)
        484650.00   3717350.00       55.11083  (16121908)              484750.00
3717350.00       50.96208  (16121208)
        486050.00   3717350.00       20.24989  (12121008)              486150.00
3717350.00       19.48408  (12121008)
        486250.00   3717350.00       18.69356  (13012808)              481950.00
3717450.00       21.74663  (15122308)
        482050.00   3717450.00       22.94120  (15122308)              482150.00
3717450.00       23.63677  (15122308)
        482250.00   3717450.00       26.07138  (15122308)              482350.00
3717450.00       27.15583  (15122308)
        482450.00   3717450.00       28.68361  (15122308)              482750.00
3717450.00       35.83833  (12011608)
        482850.00   3717450.00       38.09694  (12011608)              482950.00
3717450.00       39.44148  (12011608)
        483050.00   3717450.00       41.72874  (12011608)              483150.00
3717450.00       43.68402  (12011608)
        483250.00   3717450.00       48.34581  (12120608)              483350.00
3717450.00       52.41853  (12120608)
        483450.00   3717450.00       54.30515  (14120908)              483550.00
3717450.00       57.49728  (13121608)
        483850.00   3717450.00       67.95714  (12021708)              483950.00
3717450.00       78.19580  (15012608)
        484050.00   3717450.00       85.46575  (12020608)              484550.00
3717450.00       69.29233  (16121908)
        484650.00   3717450.00       69.46878  (13010208)              484750.00
3717450.00       56.90857  (14011508)
        481950.00   3717550.00       21.42039  (15122308)              482050.00
3717550.00       23.09506  (15122308)
        482150.00   3717550.00       24.81779  (15122308)              482250.00
3717550.00       26.05126  (15122308)
        482350.00   3717550.00       28.15599  (15122308)              482450.00
3717550.00       30.24642  (15122308)
        482750.00   3717550.00       39.03131  (15122308)              482850.00
3717550.00       39.88174  (15122308)
        482950.00   3717550.00       39.40053  (15122308)              483050.00
3717550.00       41.21642  (12011608)
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        483250.00   3717550.00       51.27686  (12011608)                483350.00
3717550.00       54.90632  (12112608)
        483450.00   3717550.00       65.47407  (12112608)                483550.00
3717550.00       62.33667  (14120908)
        483950.00   3717550.00       91.99919  (15012608)                484050.00
3717550.00      106.83025  (12020608)
        485850.00   3717550.00       22.90049  (14011008)                485950.00
3717550.00       21.81447  (14011008)
        481950.00   3717650.00       27.85285  (12020108)                482050.00
3717650.00       26.23069  (12020108)
        482150.00   3717650.00       27.12315  (12020108)                482250.00
3717650.00       27.46809  (12020108)
        482350.00   3717650.00       28.97161  (12020108)                482450.00
3717650.00       30.05392  (12020108)
        482550.00   3717650.00       32.19250  (12020108)                482650.00
3717650.00       34.40251  (15122308)
        482750.00   3717650.00       38.31474  (15122308)                482850.00
3717650.00       40.22293  (15122308)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***        09:53:15

                                    PAGE 620
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  GEN3     ***
                                    INCLUDING SOURCE(S):     GEN3        ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                           ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        482950.00   3717650.00       42.65674  (15122308)                483350.00
3717650.00       57.06302  (12011308)
        484550.00   3717650.00       73.27775  (15112616)                484650.00
3717650.00       65.26952  (13010708)
        484750.00   3717650.00       58.57507  (13010708)                484850.00
3717650.00       51.16983  (12121008)
        485150.00   3717650.00       39.38620  (14011008)                485450.00
3717650.00       29.66289  (14011008)
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        485550.00   3717650.00       27.86679  (12010508)              482250.00
3717750.00       30.57972  (12020108)
        482350.00   3717750.00       35.21355  (12020108)              482450.00
3717750.00       37.70087  (12020108)
        482550.00   3717750.00       39.05370  (12020108)              482650.00
3717750.00       40.61175  (12020108)
        482750.00   3717750.00       41.08278  (12020108)              482850.00
3717750.00       41.64420  (12020108)
        482950.00   3717750.00       44.51122  (12020108)              484550.00
3717750.00       77.17888  (13010708)
        484650.00   3717750.00       64.21870  (15122816)              484750.00
3717750.00       56.76578  (15122816)
        484850.00   3717750.00       51.31116  (14011008)              485150.00
3717750.00       39.61308  (12010508)
        485450.00   3717750.00       29.86338  (12010508)              485550.00
3717750.00       27.93056  (12010508)
        485650.00   3717750.00       26.23552  (12010508)              485750.00
3717750.00       24.33463  (12010508)
        485850.00   3717750.00       22.70821  (12010508)              485950.00
3717750.00       21.34054  (12010508)
        486050.00   3717750.00       20.14454  (12010508)              482250.00
3717850.00       32.74659  (12020108)
        482650.00   3717850.00       42.24480  (12020108)              482750.00
3717850.00       43.37731  (12020108)
        482850.00   3717850.00       43.32765  (12020108)              482950.00
3717850.00       48.97709  (12020108)
        483350.00   3717850.00       63.68986  (12020108)              483450.00
3717850.00       69.26543  (15121408)
        484550.00   3717850.00       83.37972  (15122816)              484650.00
3717850.00       65.36425  (15122816)
        484750.00   3717850.00       55.86999  (12010508)              484850.00
3717850.00       50.04741  (12010508)
        484950.00   3717850.00       44.73241  (12010508)              485150.00
3717850.00       36.21774  (12010508)
        485250.00   3717850.00       32.73891  (12010508)              485450.00
3717850.00       27.66562  (12010508)
        485550.00   3717850.00       25.74235  (12010508)              485650.00
3717850.00       23.90303  (12010508)
        485750.00   3717850.00       22.02161  (12010508)              485850.00
3717850.00       20.71384  (12010508)
        485950.00   3717850.00       19.66706  (12010508)              486050.00
3717850.00       18.31499  (12010508)
        481950.00   3717950.00       18.24650  (15010208)              482250.00
3717950.00       35.09019  (15010208)
        482350.00   3717950.00       34.49943  (15010208)              482750.00
3717950.00       46.13842  (15010208)
        483350.00   3717950.00       67.01381  (12122108)              483450.00
3717950.00       71.52572  (13012508)
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        483550.00   3717950.00   77.72609 (13012508)   484550.00
3717950.00   68.32175 (16112816)
        484650.00   3717950.00   61.46638 (14012208)   484750.00
3717950.00   55.94107 (13020108)
        484850.00   3717950.00   50.54203 (13020108)   484950.00
3717950.00   44.66685 (13020108)
        485350.00   3717950.00   28.93013 (13020108)   485450.00
3717950.00   26.14745 (13020108)
        485550.00   3717950.00   24.71664 (13020108)   485650.00
3717950.00   22.32512 (13020108)
        485750.00   3717950.00   20.68796 (13112508)   485850.00
3717950.00   19.85361 (13112508)
        485950.00   3717950.00   19.11374 (13112508)   486050.00
3717950.00   18.03236 (13112508)
        481950.00   3718050.00   22.13030 (12122108)   482050.00
3718050.00   19.62166 (14021308)
        482750.00   3718050.00   45.36869 (13012508)   482850.00
3718050.00   48.03567 (13012508)
        482950.00   3718050.00   52.46452 (13012508)   483050.00
3718050.00   56.18245 (13012508)
        483150.00   3718050.00   60.49312 (13012508)   483250.00
3718050.00   64.39865 (13012508)
        483350.00   3718050.00   67.30851 (13012508)   483450.00
3718050.00   69.24420 (16010708)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN3   ***
                                    INCLUDING SOURCE(S):   GEN3   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                              ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        483550.00   3718050.00   76.84889 (16010708)   483650.00
3718050.00   78.65196 (16021808)

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        484550.00   3718050.00       79.29873  (12012408)              484650.00
3718050.00       60.38925  (13011108)
        485450.00   3718050.00       30.24767  (13020108)              485550.00
3718050.00       27.74831  (13020108)
        485650.00   3718050.00       25.27349  (13020108)              485750.00
3718050.00       23.32231  (13020108)
        485850.00   3718050.00       21.87544  (13020108)              485950.00
3718050.00       20.71008  (13020108)
        486050.00   3718050.00       19.53459  (13020108)              481950.00
3718150.00       26.76124  (13012508)
        482050.00   3718150.00       24.49149  (13012508)              482150.00
3718150.00       22.82112  (13012508)
        482250.00   3718150.00       28.29852  (13012508)              482350.00
3718150.00       33.99686  (13012508)
        482650.00   3718150.00       44.37082  (13012508)              482750.00
3718150.00       45.95672  (13012508)
        482850.00   3718150.00       48.90733  (13012508)              482950.00
3718150.00       50.47949  (13012508)
        483050.00   3718150.00       51.26541  (13012508)              483150.00
3718150.00       56.84296  (16010708)
        483350.00   3718150.00       67.17699  (16010708)              483450.00
3718150.00       68.13240  (16010708)
        483550.00   3718150.00       77.92541  (16021808)              483650.00
3718150.00      104.94639  (16021808)
        484550.00   3718150.00       76.13227  (12012408)              484650.00
3718150.00       65.77246  (12012408)
        485250.00   3718150.00       34.41985  (13011108)              485550.00
3718150.00       27.90920  (13020108)
        485650.00   3718150.00       26.08824  (13020108)              485750.00
3718150.00       24.44954  (13020108)
        481950.00   3718250.00       30.51370  (13012508)              482050.00
3718250.00       30.78447  (13012508)
        482150.00   3718250.00       28.88290  (13012508)              482250.00
3718250.00       27.24733  (13012508)
        482350.00   3718250.00       34.06603  (13012508)              482450.00
3718250.00       36.94554  (13012508)
        482550.00   3718250.00       38.06484  (13012508)              482650.00
3718250.00       38.93525  (13012508)
        482750.00   3718250.00       41.74270  (16010708)              482850.00
3718250.00       44.26385  (16010708)
        482950.00   3718250.00       46.93070  (16010708)              483250.00
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        484550.00   3718250.00       70.85165  (12121316)              484650.00
3718250.00       57.79042  (12012408)
        484750.00   3718250.00       54.63612  (15121108)              484850.00
3718250.00       51.39478  (15121108)
        485150.00   3718250.00       35.47135  (13011108)              485250.00
3718250.00       33.70473  (13011108)
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        485650.00   3718250.00       26.24911  (13011108)                481950.00
3718350.00       27.16165  (13012508)
        482050.00   3718350.00       27.89026  (13012508)                482150.00
3718350.00       25.55662  (13012508)
        482250.00   3718350.00       22.69096  (16021608)                482350.00
3718350.00       27.72182  (16010708)
        482450.00   3718350.00       34.53641  (16010708)                482550.00
3718350.00       38.60665  (16010708)
        482650.00   3718350.00       42.27613  (16010708)                482750.00
3718350.00       45.35119  (16010708)
        483150.00   3718350.00       41.82766  (13010408)                483450.00
3718350.00       74.60361  (16021808)
        485250.00   3718350.00       33.06758  (15121108)                485350.00
3718350.00       29.30232  (15121108)
        485550.00   3718350.00       26.14592  (13011108)                485650.00
3718350.00       26.79503  (13011108)
        486150.00   3718350.00       19.14739  (13011108)                486250.00
3718350.00       18.15161  (13011108)
        481950.00   3718450.00       20.79006  (16021608)                482050.00
3718450.00       24.65597  (16010708)
        482150.00   3718450.00       24.59214  (16010708)                482250.00
3718450.00       22.79593  (16010708)
        482350.00   3718450.00       29.86712  (16010708)                482450.00
3718450.00       36.70476  (16010708)
        482550.00   3718450.00       39.58435  (16010708)                482650.00
3718450.00       40.89559  (16010708)
        482750.00   3718450.00       41.04995  (16010708)                482850.00
3718450.00       39.27651  (13010408)
        483350.00   3718450.00       63.99876  (14121708)                484450.00
3718450.00       72.44975  (12121416)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***        09:53:15

                                    PAGE 622
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  GEN3     ***
                                    INCLUDING SOURCE(S):     GEN3        ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **
```

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
485150.00	3718450.00	37.45688	(15121108)	485250.00	3718450.00	33.98745	(15121108)
485350.00	3718450.00	32.08678	(15121108)	485750.00	3718450.00	22.49717	(13011108)
485850.00	3718450.00	21.25487	(13011108)	485950.00	3718450.00	20.33637	(13011108)
486050.00	3718450.00	20.10357	(13011108)	481950.00	3718550.00	21.24973	(16010708)
482050.00	3718550.00	24.70131	(16010708)	482150.00	3718550.00	27.92828	(16010708)
482250.00	3718550.00	28.22308	(16010708)	482350.00	3718550.00	29.58069	(16010708)
482450.00	3718550.00	33.59015	(16010708)	482550.00	3718550.00	33.72578	(16010708)
482650.00	3718550.00	34.14607	(13010408)	482750.00	3718550.00	40.60607	(13010408)
482850.00	3718550.00	44.49930	(13010408)	482950.00	3718550.00	43.18994	(13010408)
483550.00	3718550.00	68.82495	(12010608)	484650.00	3718550.00	55.38324	(14122308)
484750.00	3718550.00	51.39196	(14122308)	484850.00	3718550.00	46.48212	(12010308)
485850.00	3718550.00	20.67259	(15121108)	485950.00	3718550.00	19.04771	(13011108)
482050.00	3718650.00	20.28696	(16010708)	482150.00	3718650.00	23.75957	(16010708)
482250.00	3718650.00	26.32701	(16010708)	482350.00	3718650.00	27.33508	(16010708)
482450.00	3718650.00	28.11207	(13010408)	482550.00	3718650.00	33.04763	(13010408)
482650.00	3718650.00	37.89471	(13010408)	482750.00	3718650.00	40.61903	(13010408)
482850.00	3718650.00	41.07977	(13010408)	482950.00	3718650.00	44.80744	(14121708)
485150.00	3718650.00	28.24856	(12010308)	485450.00	3718650.00	27.92590	(15121108)
485550.00	3718650.00	26.50978	(15121108)	485650.00	3718650.00	24.61186	(15121108)
485850.00	3718650.00	23.73468	(15121108)	485950.00	3718650.00	20.40258	(15121108)
486050.00	3718650.00	19.80478	(15121108)	482050.00	3718750.00	16.71087	(16010708)
482150.00	3718750.00	18.53229	(16010708)	482250.00	3718750.00	20.04439	(13010408)

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        482350.00   3718750.00       26.13070  (13010408)                482450.00
3718750.00       30.93653  (13010408)
        482550.00   3718750.00       33.91387  (13010408)                482650.00
3718750.00       34.65421  (13010408)
        482750.00   3718750.00       35.91930  (14121708)                482850.00
3718750.00       41.37014  (14121708)
        482950.00   3718750.00       42.77059  (14121708)                483050.00
3718750.00       40.42908  (14121708)
        484950.00   3718750.00       40.13013  (14122308)                485050.00
3718750.00       37.75959  (12010308)
        485150.00   3718750.00       34.45137  (12010308)                485850.00
3718750.00       24.60550  (15121108)
        485950.00   3718750.00       22.14337  (15121108)                486050.00
3718750.00       20.61869  (15121108)
        482350.00   3718850.00       26.08954  (13010408)                482450.00
3718850.00       28.62335  (13010408)
        482550.00   3718850.00       28.46752  (13010408)                482650.00
3718850.00       31.61334  (14121708)
        482750.00   3718850.00       36.56401  (14121708)                482850.00
3718850.00       37.96030  (14121708)
        482950.00   3718850.00       34.53604  (12121808)                483050.00
3718850.00       36.37499  (12120308)
        483150.00   3718850.00       30.70531  (12010608)                484150.00
3718850.00       58.22407  (13010108)
        484250.00   3718850.00       53.67910  (14010608)                485350.00
3718850.00       25.76395  (12010308)
        485450.00   3718850.00       21.46006  (12010308)                485750.00
3718850.00       22.23183  (15121108)
        485850.00   3718850.00       22.10126  (15121108)                485950.00
3718850.00       22.59724  (15121108)
        486050.00   3718850.00       20.43236  (15121108)                482450.00
3718950.00       22.93131  (14121708)
        482550.00   3718950.00       27.89495  (14121708)                482650.00
3718950.00       29.67280  (14121708)
        482750.00   3718950.00       31.78785  (14121708)                482850.00
3718950.00       29.79242  (12121808)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***        09:53:15

                                    PAGE 623
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  GEN3     ***
                                    INCLUDING SOURCE(S):     GEN3        ,
```

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
482950.00	3718950.00	30.75329	(12120308)	483050.00	3718950.00	29.68286	(12010608)
483150.00	3718950.00	37.25140	(12010608)	483250.00	3718950.00	32.99720	(12010608)
485750.00	3718950.00	21.51195	(15121108)	485850.00	3718950.00	21.09372	(15121108)
485950.00	3718950.00	20.01017	(15121108)	486050.00	3718950.00	20.37531	(15121108)
482250.00	3719050.00	15.68842	(13010408)	482350.00	3719050.00	18.83425	(14121708)
482450.00	3719050.00	21.99730	(14121708)	482550.00	3719050.00	24.03958	(14121708)
482650.00	3719050.00	25.54234	(14121708)	482850.00	3719050.00	25.22500	(12120308)
482950.00	3719050.00	23.61774	(12010608)	483050.00	3719050.00	30.20554	(12010608)
483150.00	3719050.00	32.98313	(12010608)	483250.00	3719050.00	33.85144	(14120208)
483350.00	3719050.00	28.23887	(14120208)	483450.00	3719050.00	29.30554	(16012008)
483550.00	3719050.00	24.66639	(16012008)	485250.00	3719050.00	28.19092	(14122308)
485450.00	3719050.00	24.60747	(12010308)	485550.00	3719050.00	22.13393	(12010308)
485650.00	3719050.00	20.40137	(12010308)	485750.00	3719050.00	18.78307	(12010308)
482350.00	3719150.00	18.22450	(14121708)	482650.00	3719150.00	19.73170	(12012708)
482850.00	3719150.00	20.35463	(12120308)	483050.00	3719150.00	27.84240	(12010608)
483150.00	3719150.00	28.69219	(14120208)	483250.00	3719150.00	30.31295	(14120208)
483350.00	3719150.00	30.56660	(16012008)	483450.00	3719150.00	30.37041	(16012008)
483550.00	3719150.00	24.19564	(14021408)	485250.00	3719150.00	29.06185	(14122308)
485550.00	3719150.00	23.36715	(12010308)	485650.00	3719150.00	22.10013	(12010308)

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        485950.00   3719150.00       15.25990  (12010308)                484550.00
3719250.00       33.87676  (14021908)
        484750.00   3719250.00       30.53554  (14021908)                484850.00
3719250.00       25.74858  (14021908)
        484750.00   3719350.00       30.10693  (14021908)                484850.00
3719350.00       26.14716  (14021908)
        484950.00   3719350.00       21.15762  (14021908)                485050.00
3719350.00       20.54976  (12121416)
        485150.00   3719350.00       22.42148  (12010208)                484250.00
3719450.00       38.08205  (14010608)
        484350.00   3719450.00       35.14388  (14010608)                484450.00
3719450.00       29.33292  (14010608)
        484550.00   3719450.00       28.52724  (14021908)                484650.00
3719450.00       29.69605  (14021908)
        484750.00   3719450.00       28.90221  (14021908)                484850.00
3719450.00       26.28573  (14021908)
        484950.00   3719450.00       22.72584  (14021908)                485050.00
3719450.00       19.22609  (12121416)
        485150.00   3719450.00       19.26857  (12010208)                485250.00
3719450.00       21.61931  (12010208)
        485350.00   3719450.00       23.15770  (12010208)                485450.00
3719450.00       22.96584  (12010208)
        485550.00   3719450.00       22.97900  (14122308)                484250.00
3719550.00       36.45925  (14010608)
        484350.00   3719550.00       34.24701  (14010608)                484450.00
3719550.00       29.07201  (14010608)
        484550.00   3719550.00       25.93760  (14021908)                484650.00
3719550.00       28.06839  (14021908)
        484750.00   3719550.00       27.61792  (14021908)                484850.00
3719550.00       26.09175  (14021908)
        484950.00   3719550.00       23.35930  (14021908)                485050.00
3719550.00       19.17750  (14021908)
        485150.00   3719550.00       17.61288  (12121416)                485250.00
3719550.00       18.35881  (12010208)
        485350.00   3719550.00       21.19187  (12010208)                485450.00
3719550.00       21.91405  (12010208)
        485550.00   3719550.00       22.03890  (12010208)                484450.00
3719850.00       26.85712  (14010608)
        484550.00   3719850.00       22.47647  (14010608)                484650.00
3719850.00       21.72163  (14021908)
        484350.00   3719950.00       28.44007  (14010608)                484450.00
3719950.00       26.62251  (14010608)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: GEN3 ***

INCLUDING SOURCE(S): GEN3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
484550.00	3719950.00	23.07748	(14010608)	484650.00	3719950.00	19.76379	(14021908)
483837.50	3717212.50	61.72215	(15012608)	483862.50	3717212.50	60.36526	(15012608)
483887.50	3717212.50	63.87317	(15012608)	483412.50	3717237.50	53.54305	(13012308)
483812.50	3717237.50	57.03381	(15012608)	483837.50	3717237.50	59.10152	(15012608)
483862.50	3717237.50	60.57432	(15012608)	483887.50	3717237.50	63.48223	(15012608)
483912.50	3717237.50	64.31422	(15012608)	483937.50	3717237.50	64.01629	(16012608)
483412.50	3717262.50	52.28128	(13121608)	483437.50	3717262.50	52.21012	(13012308)
483462.50	3717262.50	51.61835	(12010408)	483812.50	3717262.50	54.99677	(14123008)
483837.50	3717262.50	58.04287	(15012608)	483862.50	3717262.50	60.47875	(15012608)
483887.50	3717262.50	63.51924	(15012608)	483912.50	3717262.50	63.82090	(15012608)
483937.50	3717262.50	62.95296	(16012608)	483962.50	3717262.50	67.92592	(16012608)
483987.50	3717262.50	71.92175	(12020608)	483412.50	3717287.50	51.95274	(13121608)
483437.50	3717287.50	51.44422	(13121608)	483462.50	3717287.50	51.48967	(13012308)
483487.50	3717287.50	51.27744	(12010408)	483812.50	3717287.50	55.92191	(12021708)
483837.50	3717287.50	58.72613	(15012608)	483862.50	3717287.50	61.55900	(15012608)
483887.50	3717287.50	64.28953	(15012608)	483912.50	3717287.50	65.55366	(15012608)

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        483937.50   3717287.50       65.22315  (15012608)              483962.50
3717287.50       68.79522  (16012608)
        483987.50   3717287.50       73.40161  (12020608)              484012.50
3717287.50       77.31110  (12020608)
        483412.50   3717312.50       52.00433  (13121608)              483437.50
3717312.50       51.85806  (13121608)
        483462.50   3717312.50       51.34934  (13121608)              483487.50
3717312.50       51.48580  (13012308)
        483512.50   3717312.50       51.53817  (12010408)              483787.50
3717312.50       57.82301  (14020308)
        483812.50   3717312.50       58.45641  (12021708)              483837.50
3717312.50       60.63297  (15012608)
        483862.50   3717312.50       64.26044  (15012608)              483887.50
3717312.50       67.05635  (15012608)
        483912.50   3717312.50       68.59945  (15012608)              483937.50
3717312.50       68.26362  (15012608)
        483962.50   3717312.50       70.94880  (12020608)              483987.50
3717312.50       75.88688  (12020608)
        484012.50   3717312.50       79.74702  (12020608)              484037.50
3717312.50       81.92568  (12020608)
        484562.50   3717312.50       60.93180  (16120208)              484587.50
3717312.50       58.99137  (16120208)
        484612.50   3717312.50       57.04604  (16122708)              484637.50
3717312.50       54.79333  (16122708)
        484662.50   3717312.50       51.87651  (16122708)              484687.50
3717312.50       49.14727  (16122708)
        484712.50   3717312.50       46.98336  (13011508)              484737.50
3717312.50       47.00989  (13011508)
        484762.50   3717312.50       46.65428  (16121208)              483412.50
3717337.50       51.88454  (13121608)
        483437.50   3717337.50       52.23989  (13121608)              483462.50
3717337.50       52.10522  (13121608)
        483487.50   3717337.50       51.88369  (13121608)              483512.50
3717337.50       52.24021  (13012308)
        483537.50   3717337.50       52.90538  (12010408)              483787.50
3717337.50       60.40807  (14020308)
        483812.50   3717337.50       61.30877  (12021708)              483837.50
3717337.50       63.54968  (12021708)
        483862.50   3717337.50       67.53963  (15012608)              483887.50
3717337.50       71.26243  (15012608)
        483912.50   3717337.50       73.26913  (15012608)              483937.50
3717337.50       71.29544  (15012608)
        483962.50   3717337.50       73.30931  (12020608)              483987.50
3717337.50       78.62772  (12020608)
        484012.50   3717337.50       81.93668  (12020608)              484037.50
3717337.50       82.95016  (12020608)
        484562.50   3717337.50       64.57973  (16120208)              484587.50
3717337.50       62.14752  (16122708)
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: GEN3 ***
INCLUDING SOURCE(S): GEN3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
484612.50	3717337.50	59.59076	(16122708)	484637.50	3717337.50	56.08179	(16122708)
484662.50	3717337.50	52.74352	(16122708)	484687.50	3717337.50	50.60977	(13010308)
484712.50	3717337.50	49.73106	(13011508)	484737.50	3717337.50	49.68809	(13011508)
484762.50	3717337.50	49.44997	(16121208)	483412.50	3717362.50	51.11324	(13121608)
483437.50	3717362.50	51.80917	(13121608)	483462.50	3717362.50	52.51465	(13121608)
483487.50	3717362.50	52.93950	(13121608)	483512.50	3717362.50	52.94271	(13121608)
483537.50	3717362.50	54.03352	(13012308)	483787.50	3717362.50	62.06022	(14020308)
483812.50	3717362.50	63.06334	(12021708)	483837.50	3717362.50	66.64432	(12021708)
483862.50	3717362.50	71.17182	(15012608)	483887.50	3717362.50	77.18722	(15012608)
483912.50	3717362.50	79.17307	(15012608)	483937.50	3717362.50	76.14495	(15012608)
483962.50	3717362.50	74.85301	(12020608)	483987.50	3717362.50	80.00400	(12020608)
484012.50	3717362.50	83.08889	(12020608)	484037.50	3717362.50	83.55766	(12020608)
484562.50	3717362.50	66.46567	(16120208)	484587.50	3717362.50	64.53437	(16121908)

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        484612.50   3717362.50       61.58467  (16121908)              484637.50
3717362.50       57.76444  (16121908)
        484662.50   3717362.50       54.79618  (13010308)              484687.50
3717362.50       52.29975  (13011508)
        484712.50   3717362.50       51.89662  (13011508)              484737.50
3717362.50       52.13448  (16121208)
        484762.50   3717362.50       51.67249  (16121208)              484787.50
3717362.50       50.09432  (16121208)
        483412.50   3717387.50       49.51760  (13121608)              483437.50
3717387.50       51.20244  (13121608)
        483462.50   3717387.50       52.61994  (13121608)              483487.50
3717387.50       53.55416  (13121608)
        483512.50   3717387.50       54.19469  (13121608)              483537.50
3717387.50       54.69164  (13121608)
        483562.50   3717387.50       55.49553  (13012308)              483787.50
3717387.50       63.09702  (14020308)
        483812.50   3717387.50       63.82249  (14020308)              483837.50
3717387.50       67.28444  (12021708)
        483862.50   3717387.50       72.47567  (12021708)              483887.50
3717387.50       80.88635  (15012608)
        483912.50   3717387.50       81.77596  (15012608)              483937.50
3717387.50       77.89586  (15012608)
        483962.50   3717387.50       76.43554  (12020608)              483987.50
3717387.50       80.90895  (12020608)
        484012.50   3717387.50       83.45793  (12020608)              484037.50
3717387.50       83.81115  (12020608)
        484062.50   3717387.50       81.70945  (12020608)              484562.50
3717387.50       68.62284  (16121908)
        484587.50   3717387.50       66.30697  (16121908)              484612.50
3717387.50       63.27567  (16121908)
        484637.50   3717387.50       60.07503  (13010308)              484662.50
3717387.50       57.83350  (13010308)
        484687.50   3717387.50       55.64512  (13011508)              484712.50
3717387.50       54.81033  (16121208)
        484737.50   3717387.50       54.03405  (16121208)              484762.50
3717387.50       52.61108  (16121208)
        484787.50   3717387.50       51.00324  (14011608)              483412.50
3717412.50       51.02339  (14120908)
        483437.50   3717412.50       50.67918  (14120908)              483462.50
3717412.50       52.45843  (13121608)
        483487.50   3717412.50       54.03682  (13121608)              483512.50
3717412.50       55.19125  (13121608)
        483537.50   3717412.50       55.99658  (13121608)              483562.50
3717412.50       56.28674  (13121608)
        483787.50   3717412.50       63.80731  (14020308)              483812.50
3717412.50       64.35963  (14020308)
        483837.50   3717412.50       66.29206  (12021708)              483862.50
3717412.50       70.42631  (12021708)
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        483887.50   3717412.50       75.15585  (15012608)                483912.50
3717412.50       78.18747  (15012608)
        483937.50   3717412.50       77.65454  (15012608)                483962.50
3717412.50       77.39256  (12020608)
        483987.50   3717412.50       81.77478  (12020608)                484012.50
3717412.50       84.06872  (12020608)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***        09:53:15

                                    PAGE 626
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  GEN3     ***
                                    INCLUDING SOURCE(S):     GEN3        ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        484037.50   3717412.50       84.21425  (12020608)                484062.50
3717412.50       81.47040  (12020608)
        484487.50   3717412.50       74.41104  (16120208)                484512.50
3717412.50       72.76267  (16120208)
        484537.50   3717412.50       70.52983  (16120208)                484562.50
3717412.50       69.52984  (16121908)
        484587.50   3717412.50       67.74721  (16121908)                484612.50
3717412.50       66.03604  (13010308)
        484637.50   3717412.50       63.55260  (13010308)                484662.50
3717412.50       60.41563  (13010208)
        484687.50   3717412.50       59.12587  (13010208)                484712.50
3717412.50       57.42044  (12010908)
        484737.50   3717412.50       55.47694  (12010908)                484762.50
3717412.50       53.78993  (14011608)
        484787.50   3717412.50       51.87398  (14011608)                483412.50
3717437.50       53.10160  (14120908)
        483437.50   3717437.50       53.23925  (14120908)                483462.50
3717437.50       53.08162  (14120908)
        483487.50   3717437.50       54.00033  (13121608)                483512.50
3717437.50       55.59985  (13121608)
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        483537.50   3717437.50       56.79900  (13121608)              483562.50
3717437.50       57.51391  (13121608)
        483587.50   3717437.50       57.39078  (13121608)              483837.50
3717437.50       65.83645  (12021708)
        483862.50   3717437.50       68.69058  (12021708)              483887.50
3717437.50       71.17236  (15012608)
        483912.50   3717437.50       75.95210  (15012608)              483937.50
3717437.50       77.62723  (15012608)
        483962.50   3717437.50       78.24865  (12020608)              483987.50
3717437.50       82.99344  (12020608)
        484012.50   3717437.50       85.34102  (12020608)              484037.50
3717437.50       85.36694  (12020608)
        484062.50   3717437.50       82.88446  (12020608)              484487.50
3717437.50       76.27089  (16120208)
        484512.50   3717437.50       73.18070  (16120208)              484537.50
3717437.50       70.90136  (16121908)
        484562.50   3717437.50       69.41467  (16121908)              484587.50
3717437.50       68.93628  (13010308)
        484612.50   3717437.50       69.57654  (13010308)              484637.50
3717437.50       68.61536  (13010208)
        484662.50   3717437.50       65.67458  (13010208)              484687.50
3717437.50       62.67323  (13010208)
        484712.50   3717437.50       59.84229  (14011508)              484737.50
3717437.50       57.39455  (14011508)
        484762.50   3717437.50       55.12814  (14011508)              483412.50
3717462.50       54.72281  (14120908)
        483437.50   3717462.50       55.25550  (14120908)              483462.50
3717462.50       55.36611  (14120908)
        483487.50   3717462.50       55.06492  (14120908)              483512.50
3717462.50       55.14261  (13121608)
        483537.50   3717462.50       56.96585  (13121608)              483562.50
3717462.50       58.10915  (13121608)
        483587.50   3717462.50       58.54557  (13121608)              483887.50
3717462.50       73.06364  (12021708)
        483912.50   3717462.50       77.38070  (15012608)              483937.50
3717462.50       79.53992  (15012608)
        483962.50   3717462.50       80.17363  (12020608)              483987.50
3717462.50       85.66828  (12020608)
        484012.50   3717462.50       88.57774  (12020608)              484037.50
3717462.50       88.53598  (12020608)
        484062.50   3717462.50       85.42308  (12020608)              484487.50
3717462.50       76.89986  (16120208)
        484512.50   3717462.50       73.68769  (14123016)              484537.50
3717462.50       70.51123  (16121908)
        484562.50   3717462.50       68.82536  (13010208)              484587.50
3717462.50       69.89952  (13010208)
        484612.50   3717462.50       72.10285  (13010208)              484637.50
3717462.50       71.71515  (13010208)
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        484662.50   3717462.50       70.00424  (13010208)                484687.50
3717462.50       66.19251  (14011508)
        484712.50   3717462.50       61.31014  (14011508)                484737.50
3717462.50       58.54501  (14011508)
        484762.50   3717462.50       56.00239  (14011508)                483412.50
3717487.50       56.26589  (12120608)
        483437.50   3717487.50       56.51504  (14120908)                483462.50
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        483487.50   3717487.50       57.23040  (14120908)                483512.50
3717487.50       56.90177  (14120908)
        483537.50   3717487.50       56.19962  (13121608)                483562.50
3717487.50       57.91180  (13121608)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***        09:53:15

                                    PAGE 627
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  GEN3     ***
                                    INCLUDING SOURCE(S):     GEN3        ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                              ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        483587.50   3717487.50       58.95591  (13121608)                483612.50
3717487.50       59.27073  (13121608)
        483912.50   3717487.50       79.44758  (15012608)                483937.50
3717487.50       82.16842  (15012608)
        483962.50   3717487.50       82.97473  (12020608)                483987.50
3717487.50       89.74180  (12020608)
        484012.50   3717487.50       93.36039  (12020608)                484037.50
3717487.50       93.12348  (12020608)
        484062.50   3717487.50       89.15572  (12020608)                484537.50
3717487.50       71.23212  (13010208)
        484562.50   3717487.50       70.71412  (13010208)                484587.50
3717487.50       70.32962  (13010208)
        484612.50   3717487.50       71.56152  (13010208)                484637.50
3717487.50       72.25362  (13010208)
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        484662.50   3717487.50       71.32644  (13010208)              484687.50
3717487.50       69.12998  (14011508)
        484712.50   3717487.50       62.96185  (14011508)              484737.50
3717487.50       59.27223  (14011508)
        484762.50   3717487.50       56.34952  (14011508)              483412.50
3717512.50       58.02827  (12120608)
        483437.50   3717512.50       59.47150  (12120608)              483462.50
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        483487.50   3717512.50       59.53030  (14120908)              483512.50
3717512.50       59.17073  (14120908)
        483537.50   3717512.50       58.69795  (14120908)              483562.50
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        483587.50   3717512.50       58.77751  (13121608)              483612.50
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        484012.50   3717512.50       98.64978  (12020608)              484037.50
3717512.50       98.96724  (12020608)
        484062.50   3717512.50       94.56913  (12020608)              484537.50
3717512.50       73.54731  (13010208)
        484562.50   3717512.50       72.18680  (13010208)              484587.50
3717512.50       70.89887  (13010208)
        484612.50   3717512.50       70.42416  (13010208)              484637.50
3717512.50       70.18228  (14011508)
        484662.50   3717512.50       70.49823  (14011508)              484687.50
3717512.50       69.22071  (14011508)
        484712.50   3717512.50       64.75011  (14011508)              484737.50
3717512.50       59.80313  (14011508)
        484762.50   3717512.50       57.44522  (14013008)              483412.50
3717537.50       59.67052  (12112608)
        483437.50   3717537.50       63.03207  (12112608)              483462.50
3717537.50       64.32196  (12120608)
        483487.50   3717537.50       63.26948  (12120608)              483512.50
3717537.50       61.86187  (14120908)
        483537.50   3717537.50       61.38129  (14120908)              483562.50
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        483587.50   3717537.50       59.41070  (14120908)              483612.50
3717537.50       59.34938  (13121608)
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3717537.50       89.06999  (15012608)
        483962.50   3717537.50       90.38800  (12020608)              483987.50
3717537.50       99.02596  (12020608)
        484012.50   3717537.50      104.27692  (12020608)              484037.50
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3717562.50       63.11059  (14120908)
        483587.50   3717562.50       62.15031  (14120908)                483612.50
3717562.50       60.69904  (14120908)
        483637.50   3717562.50       59.59530  (13121608)                483937.50
3717562.50       93.51920  (12021708)
        483962.50   3717562.50       94.41477  (12020608)                483987.50
3717562.50      103.99193  (12020608)
        484012.50   3717562.50      110.68252  (12020608)                484037.50
3717562.50      111.98682  (12020608)
        484062.50   3717562.50      107.99476  (12020608)                483412.50
3717587.50       60.60846  (12112608)
        483437.50   3717587.50       64.37375  (12112608)                483462.50
3717587.50       67.56625  (12112608)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***        09:53:15

                                    PAGE 628
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  GEN3     ***
                                    INCLUDING SOURCE(S):     GEN3        ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        483487.50   3717587.50       69.00070  (12112608)                483512.50
3717587.50       69.70976  (12112608)
        483537.50   3717587.50       68.88124  (12112608)                483562.50
3717587.50       67.08747  (12112608)
        483587.50   3717587.50       64.42041  (12112608)                483612.50
3717587.50       62.88351  (14120908)
        483637.50   3717587.50       61.53056  (14120908)                484512.50
3717612.50       74.86000  (13010208)
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        484537.50   3717612.50       70.90412  (15112616)              484562.50
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        484587.50   3717612.50       68.71570  (15112616)              484612.50
3717612.50       67.10308  (15112616)
        484637.50   3717612.50       65.74832  (15112616)              484662.50
3717612.50       63.99537  (15112616)
        484687.50   3717612.50       62.18141  (15112616)              484712.50
3717612.50       60.57189  (13010708)
        484737.50   3717612.50       58.22677  (13010708)              484762.50
3717612.50       55.90931  (13010708)
        484787.50   3717612.50       53.89716  (13010708)              484812.50
3717612.50       51.89906  (13010708)
        484837.50   3717612.50       48.97553  (13010708)              484862.50
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        484512.50   3717637.50       76.40810  (15112616)              484537.50
3717637.50       73.76070  (15112616)
        484562.50   3717637.50       71.55316  (15112616)              484587.50
3717637.50       69.68630  (15112616)
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3717637.50       65.31788  (15112616)
        484662.50   3717637.50       64.16423  (13010708)              484687.50
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        484712.50   3717637.50       61.44751  (13010708)              484737.50
3717637.50       59.03881  (13010708)
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3717637.50       54.63620  (13010708)
        484812.50   3717637.50       52.85332  (13010708)              484837.50
3717637.50       51.15088  (12121008)
        484862.50   3717637.50       49.59484  (12121008)              484512.50
3717662.50       78.17250  (15112616)
        484537.50   3717662.50       75.12924  (15112616)              484562.50
3717662.50       72.06542  (15112616)
        484587.50   3717662.50       69.47137  (15112616)              484612.50
3717662.50       68.02906  (13010708)
        484637.50   3717662.50       66.46883  (13010708)              484662.50
3717662.50       64.92074  (13010708)
        484687.50   3717662.50       63.83278  (13010708)              484712.50
3717662.50       62.43896  (13010708)
        484737.50   3717662.50       60.67699  (13010708)              484762.50
3717662.50       58.09736  (13010708)
        484787.50   3717662.50       58.72621  (13010708)              484812.50
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        484837.50   3717662.50       53.14044  (12121008)              484862.50
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        484512.50   3717687.50       79.43860  (15112616)              484537.50
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        484562.50   3717687.50       73.29976  (13010708)              484587.50
3717687.50       71.25080  (13010708)
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        484612.50   3717687.50       69.20132  (13010708)               484637.50
3717687.50       67.14031  (13010708)
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        484762.50   3717687.50       59.88208  (13010708)               484787.50
3717687.50       60.25482  (13010708)
        484812.50   3717687.50       59.85781  (13010708)               484837.50
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        484537.50   3717712.50       78.17830  (13010708)               484562.50
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        484637.50   3717712.50       67.17914  (13010708)               484662.50
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3717712.50       60.43280  (13010708)
        484737.50   3717712.50       58.55974  (13010708)               484762.50
3717712.50       56.94222  (13010708)
        484787.50   3717712.50       55.40250  (12121008)               484812.50
3717712.50       55.43462  (14011008)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***        09:53:15

                                    PAGE 629
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  GEN3     ***
                                    INCLUDING SOURCE(S):     GEN3        ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                              ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        484837.50   3717712.50       54.60760  (14011008)               484862.50
3717712.50       51.82578  (14011008)
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        484612.50   3717737.50       69.17918  (13010708)              484637.50
3717737.50       66.22009  (13010708)
        484662.50   3717737.50       63.29925  (13010708)              484687.50
3717737.50       60.51098  (13010708)
        484712.50   3717737.50       58.27643  (15122816)              484737.50
3717737.50       56.87738  (15122816)
        484762.50   3717737.50       55.59064  (14011008)              484787.50
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        484537.50   3717762.50       79.02567  (13010708)              484562.50
3717762.50       74.91979  (13010708)
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        484637.50   3717762.50       66.51222  (15122816)              484662.50
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        484687.50   3717762.50       61.58281  (15122816)              484712.50
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3717762.50       56.26670  (15122816)
        484787.50   3717762.50       54.60130  (14011008)              484812.50
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        484837.50   3717762.50       51.42319  (12010508)              484862.50
3717762.50       50.26915  (12010508)
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        484562.50   3717787.50       80.09551  (15122816)              484587.50
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        484612.50   3717787.50       71.96364  (15122816)              484637.50
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        484662.50   3717787.50       65.32400  (15122816)              484687.50
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        484712.50   3717787.50       60.47311  (15122816)              484737.50
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        484762.50   3717787.50       56.72201  (12010508)              484787.50
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3717787.50       51.57046  (12010508)
        484862.50   3717787.50       50.41249  (12010508)              483412.50
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3717812.50       65.41012  (12011308)
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        483487.50   3717812.50       67.46867  (12011308)                484512.50
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3717812.50       73.31166  (15122816)
        484637.50   3717812.50       68.61368  (15122816)                484662.50
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3717812.50       60.62828  (15122816)
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        484837.50   3717812.50       51.88243  (12010508)                484862.50
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        483412.50   3717837.50       66.18197  (12020108)                483437.50
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3717837.50       69.13480  (15121408)
        483512.50   3717837.50       70.83274  (15121408)                484512.50
3717837.50       88.89566  (15122816)
        484537.50   3717837.50       86.54048  (15122816)                484562.50
3717837.50       83.04917  (15122816)
        484587.50   3717837.50       78.92898  (15122816)                484612.50
3717837.50       73.01555  (15122816)
        484637.50   3717837.50       68.01145  (15122816)                484662.50
3717837.50       64.55378  (15122816)
        484687.50   3717837.50       62.01453  (15122816)                484712.50
3717837.50       59.97154  (15122816)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***        09:53:15

                                    PAGE 630
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  GEN3     ***
                                    INCLUDING SOURCE(S):     GEN3        ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                           ** CONC OF PM_10    IN MICROGRAMS/M**3
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X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
484737.50	3717837.50	57.74179	(15122816)	484762.50	3717837.50	56.23143	(12010508)
484787.50	3717837.50	54.79626	(12010508)	484812.50	3717837.50	53.08069	(12010508)
484837.50	3717837.50	51.51552	(12010508)	484862.50	3717837.50	49.92430	(12010508)
483412.50	3717862.50	68.87882	(15121408)	483437.50	3717862.50	70.31848	(15121408)
483462.50	3717862.50	72.26265	(15121408)	483487.50	3717862.50	74.39451	(15121408)
483512.50	3717862.50	76.03472	(15121408)	484512.50	3717862.50	85.19997	(15122816)
484537.50	3717862.50	82.72888	(15122816)	484562.50	3717862.50	79.26865	(15122816)
484587.50	3717862.50	75.41435	(15122816)	484612.50	3717862.50	70.62222	(15122816)
484637.50	3717862.50	66.02551	(15122816)	484662.50	3717862.50	62.59429	(15122816)
484687.50	3717862.50	60.24301	(16112816)	484712.50	3717862.50	58.51102	(16112816)
484737.50	3717862.50	56.49405	(16112816)	484762.50	3717862.50	54.58116	(16112816)
484787.50	3717862.50	52.84623	(12010508)	484812.50	3717862.50	51.42833	(12010508)
484837.50	3717862.50	49.85382	(12010508)	484862.50	3717862.50	48.52355	(12010508)
483412.50	3717887.50	70.72813	(15121408)	483437.50	3717887.50	72.79949	(15121408)
483462.50	3717887.50	76.16529	(15121408)	483487.50	3717887.50	79.45999	(15121408)
483512.50	3717887.50	81.61074	(15121408)	483537.50	3717887.50	82.97933	(15121408)
484512.50	3717887.50	80.37004	(16112816)	484537.50	3717887.50	76.89959	(16112816)
484562.50	3717887.50	74.59119	(16112816)	484587.50	3717887.50	71.99285	(16112816)
484612.50	3717887.50	68.80804	(16112816)	484637.50	3717887.50	65.85630	(16112816)
484662.50	3717887.50	62.91086	(16112816)	484687.50	3717887.50	60.90271	(16112816)
484712.50	3717887.50	58.82820	(16112816)	484737.50	3717887.50	56.66546	(16112816)
484762.50	3717887.50	54.70742	(16112816)	484787.50	3717887.50	52.88151	(16112816)

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        484812.50   3717887.50       51.14377  (16112816)                484837.50
3717887.50       49.16841  (16112816)
        484862.50   3717887.50       47.38387  (16112816)                483412.50
3717912.50       70.91988  (15121408)
        483437.50   3717912.50       72.75636  (15121408)                483462.50
3717912.50       75.58016  (15121408)
        483487.50   3717912.50       79.21232  (15121408)                483512.50
3717912.50       81.00018  (15121408)
        483537.50   3717912.50       82.73304  (15121408)                483562.50
3717912.50       84.54245  (15121408)
        484512.50   3717912.50       78.67530  (16112816)                484537.50
3717912.50       75.27636  (16112816)
        484562.50   3717912.50       72.58342  (16112816)                484587.50
3717912.50       69.85015  (16112816)
        484612.50   3717912.50       67.50305  (16112816)                484637.50
3717912.50       64.55461  (16112816)
        484662.50   3717912.50       62.37406  (16112816)                484687.50
3717912.50       60.03422  (16112816)
        484712.50   3717912.50       57.99409  (16112816)                484737.50
3717912.50       56.05400  (16112816)
        484762.50   3717912.50       54.15741  (16112816)                484787.50
3717912.50       52.30955  (16112816)
        484812.50   3717912.50       50.59914  (16112816)                484837.50
3717912.50       48.95149  (16112816)
        484862.50   3717912.50       47.01424  (16112816)                483412.50
3717937.50       69.86152  (12122108)
        483437.50   3717937.50       71.17261  (15121408)                483462.50
3717937.50       72.78333  (15121408)
        483487.50   3717937.50       76.02732  (15121408)                483512.50
3717937.50       77.45844  (15121408)
        483537.50   3717937.50       78.80957  (15121408)                483562.50
3717937.50       79.99923  (15121408)
        483587.50   3717937.50       81.38261  (15121408)                484512.50
3717937.50       74.58110  (16112816)
        484537.50   3717937.50       71.94670  (16112816)                484562.50
3717937.50       69.20161  (16112816)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***        09:53:15

                                    PAGE 631
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  GEN3     ***
                                    INCLUDING SOURCE(S):     GEN3        ,
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
484587.50	3717937.50	67.08426	(16112816)	484612.50	3717937.50	64.61439	(16112816)
484637.50	3717937.50	62.32046	(16112816)	484662.50	3717937.50	60.12031	(16112816)
484687.50	3717937.50	58.31625	(16112816)	484712.50	3717937.50	56.80765	(14012208)
484737.50	3717937.50	55.39134	(14012208)	484762.50	3717937.50	54.13604	(13020108)
484787.50	3717937.50	52.74489	(13020108)	484812.50	3717937.50	51.35685	(13020108)
484837.50	3717937.50	50.04966	(13020108)	484862.50	3717937.50	48.65659	(13020108)
483412.50	3717962.50	71.28411	(13012508)	483437.50	3717962.50	72.84823	(13012508)
483462.50	3717962.50	74.12553	(13012508)	483487.50	3717962.50	75.41091	(13012508)
483512.50	3717962.50	77.24448	(13012508)	483537.50	3717962.50	78.34508	(13012508)
483562.50	3717962.50	79.31816	(13012508)	483587.50	3717962.50	77.56168	(13012508)
483612.50	3717962.50	75.39813	(13012508)	484512.50	3717962.50	68.80392	(14012208)
484537.50	3717962.50	67.89038	(14012208)	484562.50	3717962.50	66.62917	(14012208)
484587.50	3717962.50	65.57751	(14012208)	484612.50	3717962.50	64.17530	(14012208)
484637.50	3717962.50	62.91673	(14012208)	484662.50	3717962.50	61.45050	(14012208)
484687.50	3717962.50	60.33578	(13020108)	484712.50	3717962.50	59.02918	(13020108)
484737.50	3717962.50	57.42789	(13020108)	484762.50	3717962.50	56.07309	(13020108)
484787.50	3717962.50	54.77568	(13020108)	484812.50	3717962.50	53.44345	(13020108)
484837.50	3717962.50	52.07045	(13020108)	484862.50	3717962.50	50.68233	(13020108)
483412.50	3717987.50	72.79874	(13012508)	483437.50	3717987.50	74.13900	(13012508)

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        483462.50   3717987.50       75.37726  (13012508)                483487.50
3717987.50       76.52712  (13012508)
        483512.50   3717987.50       77.50246  (13012508)                483537.50
3717987.50       77.82545  (13012508)
        483562.50   3717987.50       77.02054  (13012508)                483587.50
3717987.50       75.43122  (13012508)
        483612.50   3717987.50       73.86355  (13012508)                484512.50
3717987.50       70.61051  (12012408)
        484537.50   3717987.50       66.97388  (14012208)                484562.50
3717987.50       66.42149  (14012208)
        484587.50   3717987.50       65.42070  (14012208)                484612.50
3717987.50       64.56887  (14012208)
        484637.50   3717987.50       63.09623  (14012208)                484662.50
3717987.50       62.08175  (13020108)
        484687.50   3717987.50       60.48475  (13020108)                484712.50
3717987.50       59.58814  (13020108)
        484737.50   3717987.50       58.46571  (13020108)                484762.50
3717987.50       57.09772  (13020108)
        484787.50   3717987.50       55.83175  (13020108)                484812.50
3717987.50       54.54694  (13020108)
        484837.50   3717987.50       53.30358  (13020108)                484862.50
3717987.50       52.06634  (13020108)
        483412.50   3718012.50       72.38915  (13012508)                483437.50
3718012.50       73.32314  (13012508)
        483462.50   3718012.50       74.08643  (13012508)                483487.50
3718012.50       74.73915  (13012508)
        483512.50   3718012.50       75.28372  (13012508)                483537.50
3718012.50       75.58767  (13012508)
        483562.50   3718012.50       75.02258  (13012508)                483587.50
3718012.50       74.37388  (16010708)
        483612.50   3718012.50       76.06144  (16010708)                483637.50
3718012.50       72.98821  (16010708)
        484512.50   3718012.50       77.91654  (12012408)                484537.50
3718012.50       73.77345  (12012408)
        484562.50   3718012.50       69.07433  (12012408)                484587.50
3718012.50       65.17539  (13011108)
        484612.50   3718012.50       63.35505  (13011108)                484637.50
3718012.50       61.45516  (14012208)
        484662.50   3718012.50       60.49129  (14012208)                484687.50
3718012.50       59.69432  (13020108)
        484712.50   3718012.50       58.96997  (13020108)                484737.50
3718012.50       58.06008  (13020108)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***        09:53:15
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: GEN3   ***
INCLUDING SOURCE(S):   GEN3   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10   IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
484762.50	3718012.50	57.02070	(13020108)	484787.50	3718012.50	55.89763	(13020108)
484812.50	3718012.50	54.86368	(13020108)	484837.50	3718012.50	53.71472	(13020108)
484862.50	3718012.50	52.64968	(13020108)	483412.50	3718037.50	70.13535	(13012508)
483437.50	3718037.50	70.54989	(13012508)	483462.50	3718037.50	70.75379	(13012508)
483487.50	3718037.50	70.83391	(13012508)	483512.50	3718037.50	72.95825	(16010708)
483537.50	3718037.50	75.09707	(16010708)	483562.50	3718037.50	76.86900	(16010708)
483587.50	3718037.50	78.14924	(16010708)	483612.50	3718037.50	78.65699	(16010708)
483637.50	3718037.50	78.94983	(16010708)	483662.50	3718037.50	77.48506	(16010708)
484512.50	3718037.50	83.68099	(12012408)	484537.50	3718037.50	79.38769	(12012408)
484562.50	3718037.50	74.64146	(12012408)	484587.50	3718037.50	69.62545	(12012408)
484612.50	3718037.50	64.47350	(12012408)	484637.50	3718037.50	61.81473	(13011108)
484662.50	3718037.50	60.17474	(13011108)	484687.50	3718037.50	59.27447	(13011108)
484712.50	3718037.50	57.86922	(13011108)	484737.50	3718037.50	56.97557	(13011108)
484762.50	3718037.50	55.61398	(13020108)	484787.50	3718037.50	54.97226	(13020108)
484812.50	3718037.50	54.08932	(13020108)	484837.50	3718037.50	53.15765	(13020108)
484862.50	3718037.50	52.17085	(13020108)	483412.50	3718062.50	67.64136	(16010708)

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        483437.50   3718062.50       69.64733  (16010708)              483462.50
3718062.50       71.54243  (16010708)
        483487.50   3718062.50       73.30070  (16010708)              483512.50
3718062.50       74.93883  (16010708)
        483537.50   3718062.50       76.37921  (16010708)              483562.50
3718062.50       77.58381  (16010708)
        483587.50   3718062.50       77.73309  (16010708)              483612.50
3718062.50       77.46589  (16010708)
        483637.50   3718062.50       79.40692  (16021808)              483662.50
3718062.50       88.10298  (16021808)
        484512.50   3718062.50       86.44503  (12012408)              484537.50
3718062.50       82.66908  (12012408)
        484562.50   3718062.50       78.15897  (12012408)              484587.50
3718062.50       72.75499  (12012408)
        484612.50   3718062.50       68.08106  (12012408)              484637.50
3718062.50       63.18348  (12012408)
        484662.50   3718062.50       59.25040  (12012408)              484687.50
3718062.50       58.10666  (13011108)
        483412.50   3718087.50       69.78929  (16010708)              483437.50
3718087.50       71.32107  (16010708)
        483462.50   3718087.50       72.70272  (16010708)              483487.50
3718087.50       73.88873  (16010708)
        483512.50   3718087.50       74.77200  (16010708)              483537.50
3718087.50       75.44980  (16010708)
        483562.50   3718087.50       75.62092  (16010708)              483587.50
3718087.50       75.01777  (16010708)
        483612.50   3718087.50       79.98954  (16021808)              483637.50
3718087.50       87.97108  (16021808)
        483662.50   3718087.50       96.01194  (16021808)              484512.50
3718087.50       85.89479  (12012408)
        484537.50   3718087.50       82.79549  (12012408)              484562.50
3718087.50       79.27939  (12012408)
        484587.50   3718087.50       75.01601  (12012408)              484612.50
3718087.50       70.58053  (12012408)
        484637.50   3718087.50       66.04893  (12012408)              484662.50
3718087.50       61.76478  (12012408)
        484687.50   3718087.50       58.33973  (12012408)              483412.50
3718112.50       70.42414  (16010708)
        483437.50   3718112.50       71.35586  (16010708)              483462.50
3718112.50       72.07756  (16010708)
        483487.50   3718112.50       72.50302  (16010708)              483512.50
3718112.50       72.54152  (16010708)
        483537.50   3718112.50       72.17575  (16010708)              483562.50
3718112.50       71.94683  (16021808)
        483587.50   3718112.50       79.54958  (16021808)              483612.50
3718112.50       86.96594  (16021808)
        483637.50   3718112.50       94.65792  (16021808)              483662.50
3718112.50      102.50023  (16021808)
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: GEN3 ***
INCLUDING SOURCE(S): GEN3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
483687.50	3718112.50	110.24660	(16021808)	484512.50	3718112.50	83.71765	(12012408)
484537.50	3718112.50	81.11040	(12012408)	484562.50	3718112.50	78.39584	(12012408)
484587.50	3718112.50	74.88797	(12012408)	484612.50	3718112.50	71.22082	(12012408)
484637.50	3718112.50	67.03637	(12012408)	484662.50	3718112.50	63.37476	(12012408)
484687.50	3718112.50	60.04385	(12012408)	483412.50	3718137.50	69.42404	(16010708)
483437.50	3718137.50	69.68122	(16010708)	483462.50	3718137.50	69.70058	(16010708)
483487.50	3718137.50	69.27961	(16010708)	483512.50	3718137.50	69.05926	(13010408)
483537.50	3718137.50	71.56555	(16021808)	483562.50	3718137.50	78.36202	(16021808)
483587.50	3718137.50	85.45166	(16021808)	483612.50	3718137.50	92.67527	(16021808)
483637.50	3718137.50	99.87576	(16021808)	483662.50	3718137.50	106.70492	(16021808)
483687.50	3718137.50	112.91231	(16021808)	484512.50	3718137.50	80.40074	(12012408)
484537.50	3718137.50	78.46212	(12012408)	484562.50	3718137.50	76.60979	(12012408)
484587.50	3718137.50	74.32918	(12012408)	484612.50	3718137.50	70.96429	(12012408)

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        484637.50   3718137.50       67.37390  (12012408)              484662.50
3718137.50       64.26601  (12012408)
        484687.50   3718137.50       61.36831  (12012408)              483412.50
3718162.50       66.88753  (16010708)
        483437.50   3718162.50       66.45723  (16010708)              483462.50
3718162.50       66.80604  (13010408)
        483487.50   3718162.50       69.25385  (13010408)              483512.50
3718162.50       71.35685  (13010408)
        483537.50   3718162.50       77.48564  (16021808)              483562.50
3718162.50       83.97188  (16021808)
        483587.50   3718162.50       90.64042  (16021808)              483612.50
3718162.50       97.21653  (16021808)
        483637.50   3718162.50      103.14637  (16021808)              483662.50
3718162.50      108.47036  (16021808)
        483687.50   3718162.50      117.11816  (12122408)              484512.50
3718162.50       75.55989  (12012408)
        484537.50   3718162.50       75.06711  (12012408)              484562.50
3718162.50       73.54663  (12012408)
        484587.50   3718162.50       71.83108  (12012408)              484612.50
3718162.50       69.49749  (12012408)
        484637.50   3718162.50       66.91362  (12012408)              484662.50
3718162.50       64.37746  (12012408)
        484687.50   3718162.50       62.02990  (12012408)              484712.50
3718162.50       59.58790  (12012408)
        484737.50   3718162.50       57.32945  (12012408)              484762.50
3718162.50       54.95265  (12012408)
        484787.50   3718162.50       52.55340  (12012408)              484812.50
3718162.50       50.36790  (12012408)
        484837.50   3718162.50       48.06892  (12012408)              484862.50
3718162.50       46.39053  (13011108)
        483412.50   3718187.50       64.53026  (13010408)              483437.50
3718187.50       66.87731  (13010408)
        483462.50   3718187.50       69.00477  (13010408)              483487.50
3718187.50       70.74811  (13010408)
        483512.50   3718187.50       76.24827  (16021808)              483537.50
3718187.50       82.10668  (16021808)
        483562.50   3718187.50       88.11910  (16021808)              484512.50
3718187.50       73.00564  (12121316)
        484537.50   3718187.50       70.00737  (12012408)              484562.50
3718187.50       69.81838  (12012408)
        484587.50   3718187.50       69.07274  (12012408)              484612.50
3718187.50       67.39349  (12012408)
        484637.50   3718187.50       65.57749  (12012408)              484662.50
3718187.50       63.46074  (12012408)
        484687.50   3718187.50       61.55182  (12012408)              484712.50
3718187.50       59.63039  (12012408)
        484737.50   3718187.50       57.51697  (12012408)              484762.50
3718187.50       55.41903  (12012408)
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        484787.50   3718187.50   53.34623 (12012408)   484812.50
3718187.50   51.21666 (12012408)
        484837.50   3718187.50   49.25815 (15121108)   484862.50
3718187.50   47.78437 (15121108)
        484162.50   3718212.50   75.72048 (14021908)   484187.50
3718212.50   89.53736 (12121416)
 *** AERMOD - VERSION 19191 ***   *** Curci Vineyard III Construction HRA
                          ***   04/16/20
 *** AERMET - VERSION 16216 ***   ***
                         ***   09:53:15

                                    PAGE 634
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN3   ***
                                    INCLUDING SOURCE(S):   GEN3   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        484212.50   3718212.50   102.87367 (12121416)   484512.50
3718212.50   75.92950 (12121316)
        484537.50   3718212.50   69.87307 (12121316)   484562.50
3718212.50   65.43779 (12012408)
        484587.50   3718212.50   65.12384 (12012408)   484612.50
3718212.50   64.37100 (12012408)
        484637.50   3718212.50   63.08212 (12012408)   484662.50
3718212.50   61.65682 (12012408)
        484687.50   3718212.50   60.20648 (12012408)   484712.50
3718212.50   58.60319 (12012408)
        484737.50   3718212.50   56.99466 (12012408)   484762.50
3718212.50   55.22223 (12012408)
        484787.50   3718212.50   53.69176 (15121108)   484812.50
3718212.50   52.09766 (15121108)
        484837.50   3718212.50   51.19153 (15121108)   484862.50
3718212.50   50.05108 (15121108)
        484512.50   3718237.50   78.08254 (12121316)   484537.50
3718237.50   72.48974 (12121316)
        484562.50   3718237.50   67.00473 (12121316)   484587.50
3718237.50   61.46508 (12121316)

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        484612.50   3718237.50       60.78238  (12012408)              484637.50
3718237.50       59.90960  (12012408)
        484662.50   3718237.50       59.05035  (12012408)              484687.50
3718237.50       58.02010  (12012408)
        484712.50   3718237.50       56.85693  (12012408)              484737.50
3718237.50       55.68143  (12012408)
        484762.50   3718237.50       54.73735  (15121108)              484787.50
3718237.50       53.68858  (15121108)
        484812.50   3718237.50       52.65792  (15121108)              484837.50
3718237.50       51.88283  (15121108)
        484862.50   3718237.50       50.78329  (15121108)              483412.50
3718262.50       67.41793  (13010408)
        483437.50   3718262.50       71.14413  (16021808)              484137.50
3718262.50       79.86228  (13010108)
        484162.50   3718262.50       74.12088  (14021908)              484212.50
3718262.50       82.89429  (12121416)
        484512.50   3718262.50       79.07593  (12121316)              484537.50
3718262.50       74.34300  (12121316)
        484562.50   3718262.50       69.22292  (12121316)              484587.50
3718262.50       64.01392  (12121316)
        484612.50   3718262.50       58.83638  (12121316)              484637.50
3718262.50       56.35547  (12012408)
        484662.50   3718262.50       55.85160  (12012408)              484687.50
3718262.50       54.95526  (12012408)
        484712.50   3718262.50       54.39577  (12012408)              484737.50
3718262.50       54.01870  (15121108)
        484762.50   3718262.50       53.66817  (15121108)              484787.50
3718262.50       52.88808  (15121108)
        484812.50   3718262.50       52.34435  (15121108)              484837.50
3718262.50       51.67772  (15121108)
        484862.50   3718262.50       50.86505  (15121108)              483412.50
3718287.50       69.22664  (16021808)
        483437.50   3718287.50       73.29089  (16021808)              484212.50
3718287.50       78.54546  (14021908)
        484512.50   3718287.50       78.99445  (12121316)              484537.50
3718287.50       75.11865  (12121316)
        484562.50   3718287.50       70.37545  (12121316)              484587.50
3718287.50       65.59970  (12121316)
        484612.50   3718287.50       60.78601  (12121316)              484637.50
3718287.50       56.10052  (12121316)
        484662.50   3718287.50       52.29236  (12012408)              484687.50
3718287.50       51.59727  (12012408)
        484712.50   3718287.50       51.21730  (12012408)              484737.50
3718287.50       51.47762  (15121108)
        484762.50   3718287.50       51.55041  (15121108)              484787.50
3718287.50       51.37146  (15121108)
        484812.50   3718287.50       50.95401  (15121108)              484837.50
3718287.50       50.55676  (15121108)
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        484862.50   3718287.50       50.10825  (15121108)                483412.50
3718312.50       70.64354  (16021808)
        483437.50   3718312.50       73.97246  (16021808)                484187.50
3718312.50       75.26826  (14021908)
        483412.50   3718337.50       71.08584  (16021808)                483437.50
3718337.50       73.79270  (16021808)
        484187.50   3718337.50       73.17726  (14021908)                483412.50
3718412.50       69.57078  (13011008)
        483437.50   3718412.50       70.97333  (12121808)                483412.50
3718437.50       69.11445  (12121808)
        483437.50   3718437.50       70.49257  (12121808)                484462.50
3718462.50       70.01972  (12121416)
```


 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN3   ***
                                    INCLUDING SOURCE(S):   GEN3   ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                           ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        484487.50   3718462.50   69.04845 (12121416)   484462.50
3718487.50   64.59955 (12121416)
        484487.50   3718487.50   64.73027 (12121416)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN4   ***


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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
481950.00	3715450.00	8.55890	(12010408)	482050.00	3715450.00	8.75137	(13122408)
482150.00	3715450.00	8.68859	(13122408)	482250.00	3715450.00	9.12424	(14011708)
482350.00	3715450.00	9.34342	(14011708)	482450.00	3715450.00	9.23583	(15122508)
482550.00	3715450.00	9.30936	(15122508)	482650.00	3715450.00	9.53215	(14010808)
482750.00	3715450.00	9.87809	(14010108)	482850.00	3715450.00	10.07551	(14010108)
482950.00	3715450.00	9.88112	(14123008)	483050.00	3715450.00	10.54989	(14123008)
483150.00	3715450.00	10.81112	(14123008)	483250.00	3715450.00	10.99461	(13020508)
483350.00	3715450.00	11.16015	(13020508)	483450.00	3715450.00	11.38699	(14010208)
483550.00	3715450.00	11.55878	(16122908)	483650.00	3715450.00	11.43184	(16122908)
483750.00	3715450.00	11.72854	(16010408)	483850.00	3715450.00	11.89231	(16010408)
483950.00	3715450.00	11.88396	(15011408)	484050.00	3715450.00	11.76385	(13122708)
484150.00	3715450.00	11.86307	(13122708)	484250.00	3715450.00	11.90425	(16122808)
484350.00	3715450.00	12.20019	(15011308)	484450.00	3715450.00	12.14669	(15011308)
481950.00	3715550.00	8.87871	(12010408)	482050.00	3715550.00	9.03767	(12010408)
482150.00	3715550.00	9.11323	(13122408)	482250.00	3715550.00	9.36317	(14011708)
482350.00	3715550.00	9.53789	(14011708)	482550.00	3715550.00	9.82057	(15122508)
482650.00	3715550.00	9.94730	(14010808)	482750.00	3715550.00	10.21355	(14010108)
482850.00	3715550.00	10.47805	(14010108)	482950.00	3715550.00	10.52222	(14010108)

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        483050.00   3715550.00       10.94461  (14123008)                483150.00
3715550.00       11.41014  (14123008)
        483250.00   3715550.00       11.54200  (13020508)                483350.00
3715550.00       11.80465  (13020508)
        483450.00   3715550.00       11.93446  (14010208)                483550.00
3715550.00       12.14065  (16122908)
        483650.00   3715550.00       12.21696  (16122908)                483750.00
3715550.00       12.32113  (16010408)
        483850.00   3715550.00       12.65764  (16010408)                483950.00
3715550.00       12.64866  (15011408)
        484050.00   3715550.00       12.59316  (13122708)                484250.00
3715550.00       12.70193  (16122808)
        484350.00   3715550.00       12.66103  (15011308)                484450.00
3715550.00       12.57572  (13122608)
        484550.00   3715550.00       13.26496  (13122608)                484950.00
3715550.00       32.36665  (15012908)
        485050.00   3715550.00       32.46438  (15012908)                481950.00
3715650.00        9.13916  (12010408)
        482050.00   3715650.00        9.42886  (12010408)                482150.00
3715650.00        9.60485  (13122408)
        482250.00   3715650.00        9.76864  (13122408)                482350.00
3715650.00        9.82928  (14011708)
        482450.00   3715650.00       10.17993  (14011708)                482650.00
3715650.00       10.50455  (15122508)
        482750.00   3715650.00       10.80894  (14010808)                482850.00
3715650.00       11.08535  (14010108)
        482950.00   3715650.00       11.09289  (14010108)                483050.00
3715650.00       11.11644  (14123008)
        483150.00   3715650.00       11.92531  (14123008)                483250.00
3715650.00       12.22273  (14123008)
        483350.00   3715650.00       12.58377  (13020508)                483450.00
3715650.00       12.58981  (14010208)
        483550.00   3715650.00       12.95447  (14010208)                483650.00
3715650.00       12.91730  (16122908)
        483750.00   3715650.00       13.17482  (16010408)                483850.00
3715650.00       13.18813  (16010408)
        483950.00   3715650.00       13.44191  (15011408)                484050.00
3715650.00       13.11022  (13122708)
        484150.00   3715650.00       13.28652  (13122708)                484350.00
3715650.00       13.70277  (15011308)
        484450.00   3715650.00       13.28413  (13122608)                484550.00
3715650.00       13.71171  (13122608)
        484650.00   3715650.00       13.59242  (13123008)                484750.00
3715650.00       14.28425  (14012108)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: GEN4 ***
INCLUDING SOURCE(S): GEN4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
484950.00	3715650.00	15.37230	(15012908)	485050.00	3715650.00	14.94445	(15012908)
481950.00	3715750.00	9.39359	(13012308)	482050.00	3715750.00	9.70697	(12010408)
482150.00	3715750.00	9.86394	(12010408)	482250.00	3715750.00	9.96926	(13122408)
482350.00	3715750.00	10.36401	(13122408)	482450.00	3715750.00	10.67469	(14011708)
482550.00	3715750.00	11.07384	(14011708)	482750.00	3715750.00	11.19288	(15122508)
482850.00	3715750.00	11.86328	(14010108)	482950.00	3715750.00	11.93820	(14010108)
483050.00	3715750.00	11.96443	(14010108)	483150.00	3715750.00	12.59875	(14123008)
483250.00	3715750.00	12.95134	(14123008)	483350.00	3715750.00	13.31357	(13020508)
483450.00	3715750.00	13.29681	(13020508)	483550.00	3715750.00	13.79670	(14010208)
483650.00	3715750.00	13.82498	(16122908)	483750.00	3715750.00	13.88164	(16010408)
483850.00	3715750.00	14.15398	(16010408)	483950.00	3715750.00	14.13803	(15011408)
484050.00	3715750.00	14.17791	(13122708)	484150.00	3715750.00	14.18617	(13122708)
484250.00	3715750.00	14.00739	(15010508)	484550.00	3715750.00	14.14165	(13122608)
484650.00	3715750.00	13.96424	(13123008)	484750.00	3715750.00	14.37471	(14012108)
484850.00	3715750.00	14.33510	(15012908)	484950.00	3715750.00	14.52324	(15012908)

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        485050.00   3715750.00       14.09111  (13010908)              481950.00
3715850.00        9.76051  (13121608)
        482050.00   3715850.00       10.10260  (13012308)              482150.00
3715850.00       10.16589  (12010408)
        482250.00   3715850.00       10.65564  (12010408)              482350.00
3715850.00       10.85235  (13122408)
        482450.00   3715850.00       11.25465  (13122408)              482550.00
3715850.00       11.58721  (14011708)
        482650.00   3715850.00       11.85280  (14011708)              482750.00
3715850.00       12.17407  (15122508)
        482850.00   3715850.00       12.39626  (14010808)              482950.00
3715850.00       12.77143  (14010108)
        483050.00   3715850.00       12.80578  (14010108)              483150.00
3715850.00       13.08305  (14123008)
        483350.00   3715850.00       13.98407  (13020508)              483450.00
3715850.00       14.29149  (13020508)
        483550.00   3715850.00       14.64401  (14010208)              483650.00
3715850.00       14.80912  (16122908)
        483750.00   3715850.00       14.95512  (16010408)              483850.00
3715850.00       15.31118  (16010408)
        483950.00   3715850.00       15.04696  (15011408)              484050.00
3715850.00       15.21159  (13122708)
        484150.00   3715850.00       15.22672  (13122708)              484250.00
3715850.00       15.04475  (15010508)
        484550.00   3715850.00       15.16061  (13122608)              484650.00
3715850.00       14.85939  (14012108)
        484750.00   3715850.00       14.88813  (14012108)              484850.00
3715850.00       14.96494  (15012908)
        485150.00   3715850.00       14.43227  (14122508)              485250.00
3715850.00       15.22000  (14122508)
        481950.00   3715950.00       10.16508  (13121608)              482050.00
3715950.00       10.26809  (13121608)
        482150.00   3715950.00       10.64120  (13012308)              482250.00
3715950.00       11.18515  (12010408)
        482350.00   3715950.00       11.49045  (12010408)              482450.00
3715950.00       11.76629  (13122408)
        482550.00   3715950.00       12.15400  (13122408)              482650.00
3715950.00       12.52065  (14011708)
        482750.00   3715950.00       12.60976  (15122508)              482850.00
3715950.00       13.02312  (15122508)
        482950.00   3715950.00       13.56954  (14010808)              483050.00
3715950.00       14.03518  (14010108)
        483350.00   3715950.00       14.89168  (14123008)              483450.00
3715950.00       15.44150  (13020508)
        483550.00   3715950.00       15.51724  (14010208)              483650.00
3715950.00       15.83471  (16122908)
        483750.00   3715950.00       15.75296  (16122908)              483850.00
3715950.00       16.56580  (16010408)
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        483950.00   3715950.00   16.06162 (15011408)   484050.00
3715950.00   16.22007 (13122708)
 *** AERMOD - VERSION 19191 ***   *** Curci Vineyard III Construction HRA
                        ***   04/16/20
 *** AERMET - VERSION 16216 ***   ***
                       ***   09:53:15

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN4   ***
                              INCLUDING SOURCE(S):   GEN4   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        484150.00   3715950.00   16.51448 (16122808)   484250.00
3715950.00   16.27260 (15010508)
        484850.00   3715950.00   15.80170 (15012908)   485150.00
3715950.00   15.37955 (14122508)
        485250.00   3715950.00   16.32557 (15010808)   481950.00
3716050.00   10.39762 (13121608)
        482050.00   3716050.00   10.78495 (13121608)   482150.00
3716050.00   11.14893 (13121608)
        482250.00   3716050.00   11.59711 (13012308)   482350.00
3716050.00   12.00089 (12010408)
        482450.00   3716050.00   12.36680 (12010408)   482550.00
3716050.00   12.85754 (13122408)
        482650.00   3716050.00   13.19765 (14011708)   482750.00
3716050.00   13.49172 (14011708)
        482850.00   3716050.00   13.96203 (15122508)   482950.00
3716050.00   14.20729 (14010808)
        483050.00   3716050.00   14.79149 (14010108)   483150.00
3716050.00   14.92051 (14010108)
        483350.00   3716050.00   15.92363 (14123008)   483450.00
3716050.00   16.45297 (13020508)
        483550.00   3716050.00   16.56786 (14010208)   483650.00
3716050.00   16.85830 (14010208)
        483750.00   3716050.00   17.24646 (16122908)   483850.00
3716050.00   17.74392 (16010408)

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        483950.00   3716050.00       17.51115  (15011408)              484050.00
3716050.00       17.30192  (13122708)
        484150.00   3716050.00       17.86452  (16122808)              484250.00
3716050.00       17.55302  (15011308)
        484450.00   3716050.00       17.18809  (13122608)              484750.00
3716050.00       16.88750  (15012908)
        484850.00   3716050.00       16.61853  (15012908)              485050.00
3716050.00       15.93544  (14122508)
        485150.00   3716050.00       16.10025  (14122508)              485250.00
3716050.00       16.85974  (16123008)
        485350.00   3716050.00       15.55422  (16123008)              485450.00
3716050.00       15.76335  (14012408)
        481950.00   3716150.00       10.46128  (13121608)              482050.00
3716150.00       11.17735  (13121608)
        482150.00   3716150.00       11.72749  (13121608)              482250.00
3716150.00       12.13769  (13121608)
        482350.00   3716150.00       12.60094  (13012308)              482450.00
3716150.00       13.05194  (12010408)
        482550.00   3716150.00       13.41068  (12010408)              482650.00
3716150.00       13.96671  (13122408)
        482750.00   3716150.00       14.39947  (14011708)              482850.00
3716150.00       14.74869  (14011708)
        482950.00   3716150.00       15.25566  (15122508)              483050.00
3716150.00       15.70647  (14010808)
        483150.00   3716150.00       16.08199  (14010108)              483450.00
3716150.00       17.46956  (13020508)
        483550.00   3716150.00       17.95968  (13020508)              483650.00
3716150.00       18.25868  (14010208)
        483750.00   3716150.00       18.71832  (16122908)              483850.00
3716150.00       19.08482  (16010408)
        483950.00   3716150.00       19.04831  (15011408)              484150.00
3716150.00       19.28143  (16122808)
        484250.00   3716150.00       19.08601  (15011308)              484350.00
3716150.00       18.80161  (13122608)
        484450.00   3716150.00       18.67209  (13122608)              484850.00
3716150.00       17.40824  (15012908)
        484950.00   3716150.00       16.81268  (14010908)              485150.00
3716150.00       16.64950  (15010808)
        485250.00   3716150.00       16.10234  (16123008)              485350.00
3716150.00       15.83624  (14012408)
        485450.00   3716150.00       16.37873  (14012408)              481950.00
3716250.00       10.29197  (14120908)
        482050.00   3716250.00       11.31170  (13121608)              482150.00
3716250.00       12.18904  (13121608)
        482250.00   3716250.00       12.81413  (13121608)              482350.00
3716250.00       13.19594  (13121608)
        482450.00   3716250.00       13.65727  (13012308)              482550.00
3716250.00       14.23971  (12010408)
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        482650.00   3716250.00       14.63615  (12010408)                482750.00
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        482850.00   3716250.00       15.92171  (14011708)                482950.00
3716250.00       16.25733  (14011708)
        483050.00   3716250.00       16.63904  (15122508)                483150.00
3716250.00       17.27904  (14010108)
        483450.00   3716250.00       18.69365  (14123008)                483550.00
3716250.00       19.40607  (13020508)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***        09:53:15

                                    PAGE 639
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  GEN4     ***
                                    INCLUDING SOURCE(S):     GEN4        ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
        483650.00   3716250.00       19.86086  (14010208)                483750.00
3716250.00       20.30266  (16122908)
        483850.00   3716250.00       20.61571  (16010408)                483950.00
3716250.00       20.48617  (15011408)
        484150.00   3716250.00       21.69563  (16122808)                484850.00
3716250.00       18.68225  (13010908)
        484950.00   3716250.00       18.74614  (14122508)                485050.00
3716250.00       17.66250  (15010808)
        485150.00   3716250.00       17.18612  (15010808)                485250.00
3716250.00       16.69660  (13012108)
        485350.00   3716250.00       17.20993  (14012408)                481950.00
3716350.00       11.28383  (14120908)
        482050.00   3716350.00       11.55348  (14120908)                482150.00
3716350.00       12.34686  (13121608)
        482250.00   3716350.00       13.58895  (13121608)                482350.00
3716350.00       14.09103  (13121608)
        482450.00   3716350.00       14.47447  (13121608)                482550.00
3716350.00       14.97568  (13012308)
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        482650.00   3716350.00       15.67323  (12010408)              482750.00
3716350.00       16.21512  (13122408)
        482850.00   3716350.00       16.77425  (13122408)              482950.00
3716350.00       17.62124  (14011708)
        483050.00   3716350.00       18.01809  (15122508)              483150.00
3716350.00       18.50064  (14010808)
        483450.00   3716350.00       20.27831  (14123008)              483550.00
3716350.00       20.95025  (13020508)
        483650.00   3716350.00       21.44992  (14010208)              483750.00
3716350.00       22.15524  (16122908)
        483850.00   3716350.00       22.44161  (16010408)              483950.00
3716350.00       22.38290  (16010408)
        484850.00   3716350.00       19.86232  (14010908)              484950.00
3716350.00       20.69923  (14122508)
        481950.00   3716450.00       12.22455  (14120908)              482550.00
3716450.00       16.09600  (13121608)
        482650.00   3716450.00       16.67088  (13012308)              482750.00
3716450.00       17.43166  (12010408)
        482850.00   3716450.00       17.77292  (13122408)              482950.00
3716450.00       18.86458  (14011708)
        483050.00   3716450.00       19.86095  (14011708)              483150.00
3716450.00       20.22710  (15122508)
        483450.00   3716450.00       22.00871  (14123008)              483550.00
3716450.00       22.65690  (13020508)
        483650.00   3716450.00       23.25984  (13020508)              483750.00
3716450.00       24.05974  (16122908)
        483850.00   3716450.00       24.45456  (16010408)              483950.00
3716450.00       24.66185  (16010408)
        484050.00   3716450.00       24.50667  (13122708)              485150.00
3716450.00       20.37158  (14012408)
        482650.00   3716550.00       18.44180  (13121608)              482750.00
3716550.00       18.75355  (13012308)
        482850.00   3716550.00       19.22352  (12010408)              482950.00
3716550.00       20.93675  (13122408)
        483450.00   3716550.00       23.60028  (14123008)              483550.00
3716550.00       25.19469  (14123008)
        483650.00   3716550.00       25.76233  (13020508)              483750.00
3716550.00       26.82740  (14010208)
        483850.00   3716550.00       26.96194  (16010408)              483950.00
3716550.00       27.59045  (16010408)
        484050.00   3716550.00       27.26593  (13122708)              484950.00
3716550.00       21.77837  (15010808)
        485050.00   3716550.00       22.50570  (14012408)              485150.00
3716550.00       23.76022  (14012408)
        482850.00   3716650.00       20.63247  (13012308)              482950.00
3716650.00       22.36127  (12010408)
        483450.00   3716650.00       25.93685  (14010108)              483550.00
3716650.00       27.46426  (14123008)
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        483650.00   3716650.00   28.91925 (13020508)   483750.00
3716650.00   30.44126 (14010208)
        483850.00   3716650.00   30.28816 (16122908)   483950.00
3716650.00   31.14158 (16010408)
        484050.00   3716650.00   30.74785 (13122708)   485250.00
3716650.00   21.63962 (14121608)
        481950.00   3716750.00   13.19410 (12120608)   482650.00
3716750.00   20.90120 (13121608)
        482750.00   3716750.00   22.70852 (13121608)   482850.00
3716750.00   22.53870 (13121608)
        482950.00   3716750.00   24.45079 (13012308)   483050.00
3716750.00   25.74723 (12010408)
        483150.00   3716750.00   27.94332 (13122408)   483450.00
3716750.00   29.11280 (14010108)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GEN4   ***
                                    INCLUDING SOURCE(S):   GEN4   ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        483550.00   3716750.00   30.30401 (14123008)   483650.00
3716750.00   34.24639 (13020508)
        483750.00   3716750.00   35.83681 (14010208)   483850.00
3716750.00   34.59717 (16122908)
        483950.00   3716750.00   35.19434 (16010408)   484050.00
3716750.00   34.73309 (13122708)
        485150.00   3716750.00   23.39308 (14121608)   485250.00
3716750.00   21.79938 (16122708)
        485350.00   3716750.00   20.57610 (16122708)   485450.00
3716750.00   20.05802 (16121208)
        485550.00   3716750.00   20.76968 (16121208)   485650.00
3716750.00   19.05161 (16121208)

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        481950.00   3716850.00       13.35885  (12011608)              482050.00
3716850.00       14.15547  (12120608)
        482150.00   3716850.00       15.22305  (12120608)              482650.00
3716850.00       22.33702  (14120908)
        482750.00   3716850.00       23.21461  (13121608)              482850.00
3716850.00       24.94951  (13121608)
        482950.00   3716850.00       27.54707  (13121608)              483050.00
3716850.00       30.27775  (13012308)
        483150.00   3716850.00       30.88262  (12010408)              483250.00
3716850.00       30.50072  (14011708)
        484050.00   3716850.00       42.88780  (13122708)              485550.00
3716850.00       21.69245  (16121208)
        485650.00   3716850.00       19.92147  (14011608)              481950.00
3716950.00       14.39472  (12011608)
        482050.00   3716950.00       14.82328  (12011608)              482150.00
3716950.00       15.40522  (12011608)
        482250.00   3716950.00       16.59575  (12120608)              482350.00
3716950.00       18.13982  (12120608)
        482450.00   3716950.00       19.70838  (12120608)              483150.00
3716950.00       33.59986  (13012308)
        483250.00   3716950.00       34.11814  (12010408)              485550.00
3716950.00       21.83590  (14011608)
        485650.00   3716950.00       20.03982  (14011608)              481950.00
3717050.00       14.92602  (12011608)
        482050.00   3717050.00       15.74559  (12011608)              482150.00
3717050.00       16.73618  (12011608)
        482250.00   3717050.00       17.74471  (12011608)              482350.00
3717050.00       18.38726  (12011608)
        482450.00   3717050.00       19.86621  (12120608)              482550.00
3717050.00       21.65836  (12120608)
        482650.00   3717050.00       23.50030  (12120608)              482850.00
3717050.00       27.14094  (14120908)
        482950.00   3717050.00       30.55371  (14120908)              483250.00
3717050.00       41.46415  (12010408)
        485350.00   3717050.00       25.45564  (14011608)              485450.00
3717050.00       24.40932  (14011608)
        485550.00   3717050.00       21.93218  (14013008)              485650.00
3717050.00       20.44874  (14013008)
        486250.00   3717050.00       33.87137  (13013008)              481950.00
3717150.00       14.55554  (12011608)
        482050.00   3717150.00       16.09204  (12011608)              482150.00
3717150.00       17.69067  (12011608)
        482250.00   3717150.00       18.53698  (12011608)              482350.00
3717150.00       19.79536  (12011608)
        482450.00   3717150.00       21.22257  (12011608)              482550.00
3717150.00       21.72626  (12011608)
        482650.00   3717150.00       24.22966  (12120608)              482750.00
3717150.00       26.87371  (12120608)
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        482850.00   3717150.00       28.75074  (12120608)                482950.00
3717150.00       31.09224  (12123108)
        483050.00   3717150.00       35.57981  (14120908)                485350.00
3717150.00       26.12382  (14013008)
        485450.00   3717150.00       24.43858  (14013008)                485550.00
3717150.00       21.86487  (14013008)
        485650.00   3717150.00       20.37436  (14012908)                481950.00
3717250.00       15.16607  (15122308)
        482050.00   3717250.00       15.77045  (12011308)                482150.00
3717250.00       16.91952  (12011608)
        482250.00   3717250.00       19.22261  (12011608)                482350.00
3717250.00       21.08886  (12011608)
        482450.00   3717250.00       22.15699  (12011608)                482550.00
3717250.00       23.76490  (12011608)
        482650.00   3717250.00       25.66065  (12011608)                482750.00
3717250.00       27.80446  (12011608)
        482850.00   3717250.00       30.35042  (12120608)                482950.00
3717250.00       32.91242  (12120608)
        483050.00   3717250.00       36.66472  (12120608)                483150.00
3717250.00       41.25722  (14120908)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 641
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  GEN4     ***
                                  INCLUDING SOURCE(S):     GEN4        ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        483250.00   3717250.00       46.67694  (13121608)                483350.00
3717250.00       54.45787  (13121608)
        483450.00   3717250.00       56.88314  (12010408)                483850.00
3717250.00       74.35758  (13020508)
        483950.00   3717250.00       82.78823  (16122908)                486150.00
3717250.00       16.13058  (12121008)
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        486250.00   3717250.00       15.49336  (12121008)              481950.00
3717350.00       16.23307  (12011308)
        482050.00   3717350.00       17.04955  (15122308)              482150.00
3717350.00       17.92835  (15122308)
        482250.00   3717350.00       19.35529  (12011308)              482350.00
3717350.00       20.67750  (12011308)
        482450.00   3717350.00       22.21227  (12011608)              482550.00
3717350.00       24.23541  (12011608)
        482650.00   3717350.00       27.12035  (12011608)              482750.00
3717350.00       30.34344  (12011608)
        482850.00   3717350.00       32.58723  (12011608)              482950.00
3717350.00       33.83860  (12011608)
        483050.00   3717350.00       38.43655  (12120608)              483150.00
3717350.00       43.91907  (12120608)
        483250.00   3717350.00       48.38503  (12120608)              483350.00
3717350.00       53.09149  (13121608)
        483450.00   3717350.00       60.56287  (13121608)              483850.00
3717350.00       92.53918  (14123008)
        483950.00   3717350.00      100.92859  (16122908)              484050.00
3717350.00      108.74511  (16011208)
        484650.00   3717350.00       63.06257  (16122708)              484750.00
3717350.00       55.82963  (16121208)
        486050.00   3717350.00       16.16634  (12121008)              486150.00
3717350.00       15.43418  (12121008)
        486250.00   3717350.00       14.66318  (12121008)              481950.00
3717450.00       16.68185  (12011308)
        482050.00   3717450.00       17.80903  (12011308)              482150.00
3717450.00       18.71256  (12011308)
        482250.00   3717450.00       20.66046  (12011308)              482350.00
3717450.00       21.96575  (12011308)
        482450.00   3717450.00       23.61745  (12011308)              482750.00
3717450.00       30.87735  (12011608)
        482850.00   3717450.00       34.19489  (12011608)              482950.00
3717450.00       37.12976  (12011608)
        483050.00   3717450.00       40.83187  (12011608)              483150.00
3717450.00       44.81212  (12011608)
        483250.00   3717450.00       52.10179  (12120608)              483350.00
3717450.00       59.62993  (12120608)
        483450.00   3717450.00       65.61333  (14120908)              483550.00
3717450.00       76.39260  (13121608)
        483850.00   3717450.00      101.59675  (14020308)              483950.00
3717450.00      120.00110  (15012608)
        484050.00   3717450.00      126.90201  (16011208)              484550.00
3717450.00       82.55993  (16122708)
        484650.00   3717450.00       75.74669  (16121208)              484750.00
3717450.00       63.81292  (14011608)
        481950.00   3717550.00       16.42054  (12011308)              482050.00
3717550.00       17.80897  (12011308)
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        482150.00   3717550.00       19.31872  (12011308)               482250.00
3717550.00       20.74247  (12011308)
        482350.00   3717550.00       22.65476  (12011308)               482450.00
3717550.00       24.71577  (12011308)
        482750.00   3717550.00       33.25748  (12011308)               482850.00
3717550.00       35.78954  (12011308)
        482950.00   3717550.00       37.60577  (12011308)               483050.00
3717550.00       41.59432  (12011608)
        483250.00   3717550.00       56.18845  (12011608)               483350.00
3717550.00       63.36850  (12112608)
        483450.00   3717550.00       79.53423  (12120608)               483550.00
3717550.00       87.62487  (12120608)
        483950.00   3717550.00      175.69000  (15012608)               484050.00
3717550.00      182.02966  (16011208)
        485850.00   3717550.00       18.72840  (14011008)               485950.00
3717550.00       17.66954  (14011008)
        481950.00   3717650.00       32.64847  (12020108)               482050.00
3717650.00       21.69070  (12020108)
        482150.00   3717650.00       21.07035  (12020108)               482250.00
3717650.00       21.12930  (12020108)
        482350.00   3717650.00       22.63961  (12020108)               482450.00
3717650.00       24.15999  (12020108)
        482550.00   3717650.00       26.70591  (12011308)               482650.00
3717650.00       29.47568  (12011308)
        482750.00   3717650.00       33.23061  (12011308)               482850.00
3717650.00       36.62147  (12011308)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 642
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  GEN4     ***
                                  INCLUDING SOURCE(S):     GEN4        ,

                                           *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
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        482950.00   3717650.00       40.63714  (12011308)              483350.00
3717650.00       68.16895  (12011608)
        484550.00   3717650.00       98.09981  (14013008)              484650.00
3717650.00       82.29777  (14012908)
        484750.00   3717650.00       67.98301  (12121008)              484850.00
3717650.00       58.14454  (12121008)
        485150.00   3717650.00       38.67384  (14011008)              485450.00
3717650.00       26.16633  (14011008)
        485550.00   3717650.00       24.21061  (12010508)              482250.00
3717750.00       25.82713  (12020108)
        482350.00   3717750.00       41.16514  (12020108)              482450.00
3717750.00       46.70393  (12020108)
        482550.00   3717750.00       44.94526  (12020108)              482650.00
3717750.00       43.25663  (12020108)
        482750.00   3717750.00       34.36294  (12020108)              482850.00
3717750.00       37.20692  (12020108)
        482950.00   3717750.00       41.37377  (12020108)              484550.00
3717750.00      104.92858  (12121008)
        484650.00   3717750.00       84.13675  (12121008)              484750.00
3717750.00       71.60561  (14011008)
        484850.00   3717750.00       60.28288  (14011008)              485150.00
3717750.00       39.43071  (12010508)
        485450.00   3717750.00       26.47801  (12010508)              485550.00
3717750.00       24.38883  (12010508)
        485650.00   3717750.00       22.60976  (12010508)              485750.00
3717750.00       20.55203  (12010508)
        485850.00   3717750.00       18.87441  (12010508)              485950.00
3717750.00       17.54288  (12010508)
        486050.00   3717750.00       16.41428  (12010508)              482250.00
3717850.00       41.23443  (12020108)
        482650.00   3717850.00       58.74828  (12020108)              482750.00
3717850.00       49.04562  (12020108)
        482850.00   3717850.00       38.38277  (12020108)              482950.00
3717850.00       47.71664  (12020108)
        483350.00   3717850.00       77.26142  (12020108)              483450.00
3717850.00       93.15184  (12020108)
        484550.00   3717850.00      117.15568  (12010508)              484650.00
3717850.00       89.95449  (12010508)
        484750.00   3717850.00       73.91226  (12010508)              484850.00
3717850.00       60.88441  (12010508)
        484950.00   3717850.00       50.92686  (12010508)              485150.00
3717850.00       37.24944  (12010508)
        485250.00   3717850.00       32.30064  (12010508)              485450.00
3717850.00       25.71529  (12010508)
        485550.00   3717850.00       23.43913  (12010508)              485650.00
3717850.00       21.33625  (12010508)
        485750.00   3717850.00       19.22806  (12010508)              485850.00
3717850.00       17.87139  (12010508)
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        485950.00   3717850.00       16.79806  (12010508)                486050.00
3717850.00       15.42706  (12010508)
        481950.00   3717950.00       30.29253  (15010208)                482250.00
3717950.00       50.98064  (15010208)
        482350.00   3717950.00       49.30168  (15010208)                482750.00
3717950.00       64.68260  (15010208)
        483350.00   3717950.00       78.81078  (12122108)                483450.00
3717950.00       95.35935  (13012508)
        483550.00   3717950.00      126.83066  (13012508)                484550.00
3717950.00      111.16806  (13020108)
        484650.00   3717950.00       87.54738  (13020108)                484750.00
3717950.00       71.10944  (13020108)
        484850.00   3717950.00       58.99597  (13020108)                484950.00
3717950.00       49.06104  (13020108)
        485350.00   3717950.00       27.05197  (13020108)                485450.00
3717950.00       23.72415  (13020108)
        485550.00   3717950.00       22.08704  (13020108)                485650.00
3717950.00       19.49296  (13020108)
        485750.00   3717950.00       17.60784  (13020108)                485850.00
3717950.00       16.52019  (13020108)
        485950.00   3717950.00       15.72011  (16112816)                486050.00
3717950.00       14.62648  (16112816)
        481950.00   3718050.00       32.96001  (12122108)                482050.00
3718050.00       33.02412  (12122108)
        482750.00   3718050.00       62.44576  (13012508)                482850.00
3718050.00       58.71665  (13012508)
        482950.00   3718050.00       70.34512  (13012508)                483050.00
3718050.00       73.14450  (13012508)
        483150.00   3718050.00       83.96403  (13012508)                483250.00
3718050.00       95.88493  (13012508)
        483350.00   3718050.00      100.13457  (13012508)                483450.00
3718050.00      111.95039  (13012508)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***        09:53:15

                                    PAGE 643
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  GEN4     ***
                                    INCLUDING SOURCE(S):     GEN4        ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                                 ** CONC OF PM_10    IN MICROGRAMS/M**3
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**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
483550.00	3718050.00	116.43515	(16010708)	483650.00	3718050.00	146.02556	(16010708)
484550.00	3718050.00	106.58006	(13011108)	484650.00	3718050.00	85.50786	(13011108)
485450.00	3718050.00	26.99462	(13020108)	485550.00	3718050.00	24.19538	(13020108)
485650.00	3718050.00	21.53044	(13020108)	485750.00	3718050.00	19.49003	(13020108)
485850.00	3718050.00	18.06722	(13020108)	485950.00	3718050.00	16.93580	(13020108)
486050.00	3718050.00	15.80110	(13020108)	481950.00	3718150.00	36.52401	(13012508)
482050.00	3718150.00	33.92908	(13012508)	482150.00	3718150.00	34.23219	(13012508)
482250.00	3718150.00	40.22814	(13012508)	482350.00	3718150.00	48.16210	(13012508)
482650.00	3718150.00	65.91868	(13012508)	482750.00	3718150.00	63.49751	(13012508)
482850.00	3718150.00	78.27489	(13012508)	482950.00	3718150.00	83.26382	(13012508)
483050.00	3718150.00	86.40947	(13012508)	483150.00	3718150.00	90.43820	(16010708)
483350.00	3718150.00	110.14505	(16010708)	483450.00	3718150.00	121.96928	(16010708)
483550.00	3718150.00	140.80273	(13010408)	483650.00	3718150.00	171.64308	(16021808)
484550.00	3718150.00	100.98725	(15121108)	484650.00	3718150.00	82.59359	(15121108)
485250.00	3718150.00	32.50316	(13011108)	485550.00	3718150.00	24.21251	(13020108)
485650.00	3718150.00	22.12302	(13020108)	485750.00	3718150.00	20.33898	(13020108)
481950.00	3718250.00	43.64866	(13012508)	482050.00	3718250.00	43.96422	(13012508)
482150.00	3718250.00	41.08447	(13012508)	482250.00	3718250.00	40.08456	(13012508)
482350.00	3718250.00	49.42061	(13012508)	482450.00	3718250.00	55.57517	(13012508)
482550.00	3718250.00	58.01877	(13012508)	482650.00	3718250.00	57.78013	(13012508)
482750.00	3718250.00	60.18609	(16010708)	482850.00	3718250.00	63.82315	(16010708)

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        482950.00   3718250.00       68.72712  (16010708)                483250.00
3718250.00      107.14948  (16010708)
        484550.00   3718250.00       86.29436  (12010308)                484650.00
3718250.00       73.13271  (15121108)
        484750.00   3718250.00       65.50975  (15121108)                484850.00
3718250.00       57.28764  (15121108)
        485150.00   3718250.00       35.06182  (13011108)                485250.00
3718250.00       31.90063  (13011108)
        485650.00   3718250.00       22.32785  (13011108)                481950.00
3718350.00       38.47495  (13012508)
        482050.00   3718350.00       39.75016  (13012508)                482150.00
3718350.00       35.84092  (13012508)
        482250.00   3718350.00       31.28887  (16021608)                482350.00
3718350.00       37.01833  (13012508)
        482450.00   3718350.00       49.69510  (16010708)                482550.00
3718350.00       56.99930  (16010708)
        482650.00   3718350.00       63.36178  (16010708)                482750.00
3718350.00       69.23852  (16010708)
        483150.00   3718350.00       65.65386  (13010408)                483450.00
3718350.00      133.79457  (14121708)
        485250.00   3718350.00       31.28690  (15121108)                485350.00
3718350.00       27.25737  (15121108)
        485550.00   3718350.00       22.75213  (13011108)                485650.00
3718350.00       22.69003  (13011108)
        486150.00   3718350.00       15.10516  (13011108)                486250.00
3718350.00       14.19747  (13011108)
        481950.00   3718450.00       28.49607  (16021608)                482050.00
3718450.00       32.76062  (16010708)
        482150.00   3718450.00       32.99163  (16010708)                482250.00
3718450.00       33.53151  (16010708)
        482350.00   3718450.00       42.00410  (16010708)                482450.00
3718450.00       53.59026  (16010708)
        482550.00   3718450.00       59.72139  (16010708)                482650.00
3718450.00       62.80409  (16010708)
        482750.00   3718450.00       64.17005  (16010708)                482850.00
3718450.00       57.96100  (16010708)
        483350.00   3718450.00      109.20973  (14121708)                484450.00
3718450.00       80.20915  (12121416)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                PAGE 644
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  GEN4     ***
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CurciVineyardIIICon.ADO
INCLUDING SOURCE(S): GEN4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
485150.00	3718450.00	35.59283	(15121108)	485250.00	3718450.00	31.48125	(15121108)
485350.00	3718450.00	28.96634	(15121108)	485750.00	3718450.00	19.01130	(13011108)
485850.00	3718450.00	17.52950	(13011108)	485950.00	3718450.00	16.42405	(13011108)
486050.00	3718450.00	16.06325	(13011108)	481950.00	3718550.00	29.47924	(16010708)
482050.00	3718550.00	34.31716	(16010708)	482150.00	3718550.00	39.13748	(16010708)
482250.00	3718550.00	40.31173	(16010708)	482350.00	3718550.00	42.51509	(16010708)
482450.00	3718550.00	49.14787	(16010708)	482550.00	3718550.00	50.18538	(16010708)
482650.00	3718550.00	48.02376	(13010408)	482750.00	3718550.00	60.70666	(13010408)
482850.00	3718550.00	67.22481	(13010408)	482950.00	3718550.00	64.29751	(13010408)
483550.00	3718550.00	116.66574	(12010608)	484650.00	3718550.00	59.17840	(14122308)
484750.00	3718550.00	53.35879	(14122308)	484850.00	3718550.00	46.52598	(12010308)
485850.00	3718550.00	17.26682	(15121108)	485950.00	3718550.00	15.74897	(15121108)
482050.00	3718650.00	31.59544	(16010708)	482150.00	3718650.00	34.44651	(16010708)
482250.00	3718650.00	37.27140	(16010708)	482350.00	3718650.00	38.91412	(16010708)
482450.00	3718650.00	37.62159	(13010408)	482550.00	3718650.00	46.06255	(13010408)
482650.00	3718650.00	55.14585	(13010408)	482750.00	3718650.00	60.78873	(13010408)
482850.00	3718650.00	62.83108	(13010408)	482950.00	3718650.00	66.47365	(14121708)
485150.00	3718650.00	27.18887	(12010308)	485450.00	3718650.00	24.38012	(15121108)

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        485550.00   3718650.00       22.67948  (15121108)                485650.00
3718650.00       20.65295  (15121108)
        485850.00   3718650.00       19.15885  (15121108)                485950.00
3718650.00       16.58619  (15121108)
        486050.00   3718650.00       15.88126  (15121108)                482050.00
3718750.00       26.35448  (16010708)
        482150.00   3718750.00       26.47322  (16010708)                482250.00
3718750.00       26.88743  (13010408)
        482350.00   3718750.00       35.52557  (13010408)                482450.00
3718750.00       43.31003  (13010408)
        482550.00   3718750.00       48.66992  (13010408)                482650.00
3718750.00       50.44029  (13010408)
        482750.00   3718750.00       50.86405  (13010408)                482850.00
3718750.00       60.75677  (14121708)
        482950.00   3718750.00       63.95518  (14121708)                483050.00
3718750.00       61.22023  (14121708)
        484950.00   3718750.00       37.33784  (14122308)                485050.00
3718750.00       33.92154  (12010308)
        485150.00   3718750.00       30.42572  (12010308)                485850.00
3718750.00       19.38307  (15121108)
        485950.00   3718750.00       17.60233  (15121108)                486050.00
3718750.00       16.29553  (15121108)
        482350.00   3718850.00       37.54156  (13010408)                482450.00
3718850.00       41.11964  (13010408)
        482550.00   3718850.00       41.00566  (13010408)                482650.00
3718850.00       43.97739  (14121708)
        482750.00   3718850.00       52.64941  (14121708)                482850.00
3718850.00       55.97366  (14121708)
        482950.00   3718850.00       50.37933  (14121708)                483050.00
3718850.00       51.97192  (12120308)
        483150.00   3718850.00       47.01970  (12122608)                484150.00
3718850.00       90.26285  (14010608)
        484250.00   3718850.00       73.74955  (14010608)                485350.00
3718850.00       22.62879  (12010308)
        485450.00   3718850.00       19.10567  (12010308)                485750.00
3718850.00       18.25813  (15121108)
        485850.00   3718850.00       17.76968  (15121108)                485950.00
3718850.00       17.55425  (15121108)
        486050.00   3718850.00       16.05453  (15121108)                482450.00
3718950.00       32.12768  (13010408)
        482550.00   3718950.00       39.60952  (14121708)                482650.00
3718950.00       43.40132  (14121708)
        482750.00   3718950.00       46.16829  (14121708)                482850.00
3718950.00       43.24614  (12121808)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: GEN4 ***
INCLUDING SOURCE(S): GEN4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
482950.00	3718950.00	44.86940	(12120308)	483050.00	3718950.00	43.41041	(12120308)
483150.00	3718950.00	53.57085	(12010608)	483250.00	3718950.00	54.17745	(12010608)
485750.00	3718950.00	16.99918	(15121108)	485850.00	3718950.00	16.66356	(15121108)
485950.00	3718950.00	15.89388	(15121108)	486050.00	3718950.00	15.73780	(15121108)
482250.00	3719050.00	27.28874	(13010408)	482350.00	3719050.00	29.31548	(14121708)
482450.00	3719050.00	34.35463	(14121708)	482550.00	3719050.00	37.18594	(14121708)
482650.00	3719050.00	37.78424	(14121708)	482850.00	3719050.00	39.11235	(13020608)
482950.00	3719050.00	37.99967	(12120308)	483050.00	3719050.00	44.09583	(12010608)
483150.00	3719050.00	50.69638	(12010608)	483250.00	3719050.00	52.34721	(14120208)
483350.00	3719050.00	48.55031	(14120208)	483450.00	3719050.00	53.40635	(16012008)
483550.00	3719050.00	50.51541	(12021308)	485250.00	3719050.00	24.10147	(14122308)
485450.00	3719050.00	20.48747	(12010308)	485550.00	3719050.00	18.44301	(12010308)
485650.00	3719050.00	16.88232	(12010308)	485750.00	3719050.00	15.27354	(12010308)
482350.00	3719150.00	31.42411	(14121708)	482650.00	3719150.00	34.35937	(12121808)
482850.00	3719150.00	34.46637	(12120308)	483050.00	3719150.00	44.18281	(12010608)

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        483150.00   3719150.00       44.94124  (14120208)              483250.00
3719150.00       47.90242  (14120208)
        483350.00   3719150.00       47.58559  (16012008)              483450.00
3719150.00       50.33156  (16012008)
        483550.00   3719150.00       46.97995  (12012308)              485250.00
3719150.00       23.83020  (14122308)
        485550.00   3719150.00       18.90598  (12010308)              485650.00
3719150.00       17.65357  (12010308)
        485950.00   3719150.00       12.42676  (15121108)              484550.00
3719250.00       27.91035  (14021908)
        484750.00   3719250.00       25.19943  (14021908)              484850.00
3719250.00       21.74106  (14021908)
        484750.00   3719350.00       24.06039  (14021908)              484850.00
3719350.00       21.37806  (14021908)
        484950.00   3719350.00       17.96838  (14021908)              485050.00
3719350.00       18.29528  (12121416)
        485150.00   3719350.00       18.75302  (12010208)              484250.00
3719450.00       43.22286  (14010608)
        484350.00   3719450.00       35.62177  (14010608)              484450.00
3719450.00       25.68310  (14010608)
        484550.00   3719450.00       22.49224  (14021908)              484650.00
3719450.00       23.24109  (14021908)
        484750.00   3719450.00       22.62902  (14021908)              484850.00
3719450.00       20.81977  (14021908)
        484950.00   3719450.00       18.29590  (14021908)              485050.00
3719450.00       16.62217  (12121416)
        485150.00   3719450.00       16.78246  (12121416)              485250.00
3719450.00       17.43698  (12010208)
        485350.00   3719450.00       18.10825  (12010208)              485450.00
3719450.00       17.87948  (14122308)
        485550.00   3719450.00       17.71457  (14122308)              484250.00
3719550.00       43.64483  (14010608)
        484350.00   3719550.00       37.06481  (14010608)              484450.00
3719550.00       27.49204  (14010608)
        484550.00   3719550.00       20.12425  (14021908)              484650.00
3719550.00       21.35401  (14021908)
        484750.00   3719550.00       21.17840  (14021908)              484850.00
3719550.00       20.07385  (14021908)
        484950.00   3719550.00       18.15373  (14021908)              485050.00
3719550.00       15.49888  (14021908)
        485150.00   3719550.00       15.25092  (12121416)              485250.00
3719550.00       15.31788  (12121416)
        485350.00   3719550.00       16.36954  (12010208)              485450.00
3719550.00       16.71107  (12010208)
        485550.00   3719550.00       16.63658  (14122308)              484450.00
3719850.00       25.62562  (14010608)
        484550.00   3719850.00       18.33180  (14010608)              484650.00
3719850.00       17.05687  (14021908)
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484350.00 3719950.00 29.80174 (14010608) 484450.00 3719950.00 27.58224 (14010608)
*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: GEN4 ***
INCLUDING SOURCE(S): GEN4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
484550.00	3719950.00	23.45120	(14010608)	484650.00	3719950.00	15.71392	(14021908)
483837.50	3717212.50	74.06123	(13020508)	483862.50	3717212.50	72.72564	(14010208)
483887.50	3717212.50	76.68890	(14010208)	483412.50	3717237.50	55.58219	(13012308)
483812.50	3717237.50	72.88545	(14123008)	483837.50	3717237.50	73.86208	(13020508)
483862.50	3717237.50	74.59176	(13020508)	483887.50	3717237.50	78.24075	(14010208)
483912.50	3717237.50	80.31647	(16122908)	483937.50	3717237.50	81.39020	(16122908)
483412.50	3717262.50	55.99358	(13121608)	483437.50	3717262.50	56.77134	(13012308)
483462.50	3717262.50	57.42019	(12010408)	483812.50	3717262.50	72.09130	(14123008)
483837.50	3717262.50	73.79996	(13020508)	483862.50	3717262.50	75.81221	(13020508)
483887.50	3717262.50	79.81255	(14010208)	483912.50	3717262.50	81.54106	(14010208)
483937.50	3717262.50	82.99211	(16122908)	483962.50	3717262.50	86.09423	(16010408)
483987.50	3717262.50	88.99701	(16010408)	483412.50	3717287.50	56.73742	(13121608)

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        483437.50   3717287.50       57.30602  (13121608)              483462.50
3717287.50       58.06294  (13012308)
        483487.50   3717287.50       58.87145  (12010408)              483812.50
3717287.50       74.82911  (14123008)
        483837.50   3717287.50       76.08174  (13020508)              483862.50
3717287.50       78.61183  (13020508)
        483887.50   3717287.50       81.90975  (14010208)              483912.50
3717287.50       84.99020  (14010208)
        483937.50   3717287.50       87.14266  (16122908)              483962.50
3717287.50       89.31862  (16010408)
        483987.50   3717287.50       92.69236  (16010408)              484012.50
3717287.50       94.17693  (16010408)
        483412.50   3717312.50       57.65912  (13121608)              483437.50
3717312.50       58.52082  (13121608)
        483462.50   3717312.50       59.01427  (13121608)              483487.50
3717312.50       59.76750  (13012308)
        483512.50   3717312.50       60.76077  (12010408)              483787.50
3717312.50       77.07931  (14010108)
        483812.50   3717312.50       79.62503  (14123008)              483837.50
3717312.50       81.75388  (14123008)
        483862.50   3717312.50       84.45412  (13020508)              483887.50
3717312.50       86.82379  (13020508)
        483912.50   3717312.50       90.10233  (14010208)              483937.50
3717312.50       92.15538  (16122908)
        483962.50   3717312.50       93.87823  (16122908)              483987.50
3717312.50       97.27378  (16010408)
        484012.50   3717312.50       98.86329  (16010408)              484037.50
3717312.50      101.76770  (16011208)
        484562.50   3717312.50       69.52231  (14012408)              484587.50
3717312.50       67.16109  (14121608)
        484612.50   3717312.50       64.28632  (14121608)              484637.50
3717312.50       61.64114  (16122708)
        484662.50   3717312.50       58.59288  (16122708)              484687.50
3717312.50       55.57891  (16122708)
        484712.50   3717312.50       52.91724  (16122708)              484737.50
3717312.50       51.11353  (13011508)
        484762.50   3717312.50       50.67730  (16121208)              483412.50
3717337.50       58.43651  (13121608)
        483437.50   3717337.50       59.74500  (13121608)              483462.50
3717337.50       60.56524  (13121608)
        483487.50   3717337.50       61.32405  (13121608)              483512.50
3717337.50       62.32857  (13012308)
        483537.50   3717337.50       64.25400  (12010408)              483787.50
3717337.50       82.01656  (14010108)
        483812.50   3717337.50       84.79114  (14123008)              483837.50
3717337.50       88.05121  (14123008)
        483862.50   3717337.50       90.83252  (13020508)              483887.50
3717337.50       93.92059  (13020508)
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       483912.50   3717337.50       96.90259  (14010208)                483937.50
3717337.50       97.41147  (16122908)
       483962.50   3717337.50       99.03299  (16122908)                483987.50
3717337.50      102.33012  (16010408)
       484012.50   3717337.50      103.71912  (16010408)                484037.50
3717337.50      106.22952  (16011208)
       484562.50   3717337.50       72.38973  (14121608)                484587.50
3717337.50       69.78380  (14121608)
♠ *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***        09:53:15

                                    PAGE 647
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                 *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  GEN4     ***
                                    INCLUDING SOURCE(S):     GEN4        ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
       484612.50   3717337.50       67.14523  (16122708)                484637.50
3717337.50       63.79935  (16122708)
       484662.50   3717337.50       60.37463  (16122708)                484687.50
3717337.50       57.22171  (16122708)
       484712.50   3717337.50       54.89308  (13011508)                484737.50
3717337.50       54.66349  (16121208)
       484762.50   3717337.50       53.81282  (16121208)                483412.50
3717362.50       58.67241  (13121608)
       483437.50   3717362.50       60.25506  (13121608)                483462.50
3717362.50       61.88622  (13121608)
       483487.50   3717362.50       63.32523  (13121608)                483512.50
3717362.50       64.43040  (13121608)
       483537.50   3717362.50       66.58422  (13012308)                483787.50
3717362.50       85.78358  (14010108)
       483812.50   3717362.50       88.73558  (14010108)                483837.50
3717362.50       93.56255  (14123008)
       483862.50   3717362.50       97.38118  (13020508)                483887.50
3717362.50      102.19019  (13020508)
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        483912.50   3717362.50      104.52965  (14010208)              483937.50
3717362.50      104.56345  (16122908)
        483962.50   3717362.50      103.82438  (16122908)              483987.50
3717362.50      106.69065  (16010408)
        484012.50   3717362.50      108.18684  (16010408)              484037.50
3717362.50      110.61970  (16011208)
        484562.50   3717362.50       74.65831  (16122708)              484587.50
3717362.50       72.44404  (16122708)
        484612.50   3717362.50       69.40201  (16122708)              484637.50
3717362.50       65.73475  (16122708)
        484662.50   3717362.50       61.85953  (16122708)              484687.50
3717362.50       58.73200  (16121208)
        484712.50   3717362.50       58.17257  (16121208)              484737.50
3717362.50       57.65025  (16121208)
        484762.50   3717362.50       56.45212  (16121208)              484787.50
3717362.50       54.46904  (16121208)
        483412.50   3717387.50       58.13579  (13121608)              483437.50
3717387.50       60.67263  (13121608)
        483462.50   3717387.50       63.05430  (13121608)              483487.50
3717387.50       65.03571  (13121608)
        483512.50   3717387.50       66.86908  (13121608)              483537.50
3717387.50       68.83459  (13121608)
        483562.50   3717387.50       70.79367  (13012308)              483787.50
3717387.50       88.71378  (14010108)
        483812.50   3717387.50       92.25595  (14010108)              483837.50
3717387.50       96.54166  (14123008)
        483862.50   3717387.50      102.96858  (14123008)              483887.50
3717387.50      108.92255  (13020508)
        483912.50   3717387.50      110.06709  (14010208)              483937.50
3717387.50      109.57018  (14010208)
        483962.50   3717387.50      108.94969  (16122908)              483987.50
3717387.50      110.78354  (16010408)
        484012.50   3717387.50      112.14406  (16010408)              484037.50
3717387.50      114.77271  (16011208)
        484062.50   3717387.50      114.85973  (16011208)              484562.50
3717387.50       77.57047  (16122708)
        484587.50   3717387.50       74.63424  (16122708)              484612.50
3717387.50       71.21338  (16122708)
        484637.50   3717387.50       67.14470  (16122708)              484662.50
3717387.50       64.53103  (13011508)
        484687.50   3717387.50       62.94963  (16121208)              484712.50
3717387.50       61.70188  (16121208)
        484737.50   3717387.50       60.15096  (16121208)              484762.50
3717387.50       58.16924  (16121208)
        484787.50   3717387.50       55.98838  (14011608)              483412.50
3717412.50       59.19459  (14120908)
        483437.50   3717412.50       60.98290  (13121608)              483462.50
3717412.50       64.12408  (13121608)
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        483487.50   3717412.50       66.85871  (13121608)                483512.50
3717412.50       69.29620  (13121608)
        483537.50   3717412.50       71.56491  (13121608)                483562.50
3717412.50       73.48707  (13121608)
        483787.50   3717412.50       91.53758  (15013008)                483812.50
3717412.50       94.35083  (14010108)
        483837.50   3717412.50       96.85922  (14123008)                483862.50
3717412.50      103.71965  (14123008)
        483887.50   3717412.50      108.68824  (13020508)                483912.50
3717412.50      111.34582  (13020508)
        483937.50   3717412.50      112.90621  (14010208)                483962.50
3717412.50      113.62343  (16122908)
        483987.50   3717412.50      114.74574  (16010408)                484012.50
3717412.50      116.07174  (16010408)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***        09:53:15

                                    PAGE 648
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  GEN4     ***
                                    INCLUDING SOURCE(S):     GEN4        ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        484037.50   3717412.50      118.81681  (16011208)                484062.50
3717412.50      118.52449  (16011208)
        484487.50   3717412.50       86.14921  (14012408)                484512.50
3717412.50       83.95166  (16122708)
        484537.50   3717412.50       82.07096  (16122708)                484562.50
3717412.50       79.54951  (16122708)
        484587.50   3717412.50       76.43259  (16122708)                484612.50
3717412.50       72.77852  (16122708)
        484637.50   3717412.50       70.32292  (13011508)                484662.50
3717412.50       68.30551  (16121208)
        484687.50   3717412.50       66.77725  (16121208)                484712.50
3717412.50       64.71811  (16121208)
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        484737.50   3717412.50       62.19451  (14011608)              484762.50
3717412.50       60.00003  (14011608)
        484787.50   3717412.50       57.60598  (14011608)              483412.50
3717437.50       61.95764  (14120908)
        483437.50   3717437.50       63.41299  (14120908)              483462.50
3717437.50       64.97392  (13121608)
        483487.50   3717437.50       68.27434  (13121608)              483512.50
3717437.50       71.25782  (13121608)
        483537.50   3717437.50       73.98451  (13121608)              483562.50
3717437.50       76.38108  (13121608)
        483587.50   3717437.50       77.94779  (13121608)              483837.50
3717437.50       98.35143  (14020308)
        483862.50   3717437.50      101.43982  (14123008)              483887.50
3717437.50      105.30592  (14123008)
        483912.50   3717437.50      111.99581  (13020508)              483937.50
3717437.50      115.73427  (14010208)
        483962.50   3717437.50      118.14682  (16122908)              483987.50
3717437.50      118.83659  (16010408)
        484012.50   3717437.50      120.28578  (16010408)              484037.50
3717437.50      123.27304  (16011208)
        484062.50   3717437.50      123.81421  (16011208)              484487.50
3717437.50       89.32277  (16122708)
        484512.50   3717437.50       86.87129  (16122708)              484537.50
3717437.50       83.97848  (16122708)
        484562.50   3717437.50       80.77190  (16122708)              484587.50
3717437.50       77.44122  (13011508)
        484612.50   3717437.50       76.38220  (13011508)              484637.50
3717437.50       74.95255  (16121208)
        484662.50   3717437.50       72.56211  (16121208)              484687.50
3717437.50       69.95258  (16121208)
        484712.50   3717437.50       67.09658  (14011608)              484737.50
3717437.50       64.37008  (14011608)
        484762.50   3717437.50       61.66251  (14011608)              483412.50
3717462.50       64.75986  (12120608)
        483437.50   3717462.50       66.26937  (14120908)              483462.50
3717462.50       67.90977  (14120908)
        483487.50   3717462.50       69.26835  (14120908)              483512.50
3717462.50       72.41675  (13121608)
        483537.50   3717462.50       75.92079  (13121608)              483562.50
3717462.50       78.83258  (13121608)
        483587.50   3717462.50       81.06795  (13121608)              483887.50
3717462.50      112.59799  (14123008)
        483912.50   3717462.50      118.58896  (13020508)              483937.50
3717462.50      123.24005  (15012608)
        483962.50   3717462.50      124.90564  (15012608)              483987.50
3717462.50      125.28856  (16010408)
        484012.50   3717462.50      127.51692  (16010408)              484037.50
3717462.50      130.95090  (16011208)
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        484062.50   3717462.50      131.04145  (16011208)                484487.50
3717462.50       92.70057  (16122708)
        484512.50   3717462.50       89.29722  (16122708)                484537.50
3717462.50       85.15280  (16122708)
        484562.50   3717462.50       81.47931  (13011508)                484587.50
3717462.50       80.26925  (16121208)
        484612.50   3717462.50       79.97961  (16121208)                484637.50
3717462.50       79.53969  (16121208)
        484662.50   3717462.50       78.76124  (14011608)                484687.50
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        484712.50   3717462.50       69.06211  (14011608)                484737.50
3717462.50       65.91814  (14011608)
        484762.50   3717462.50       62.96229  (14011508)                483412.50
3717487.50       67.71929  (12120608)
        483437.50   3717487.50       69.33390  (12120608)                483462.50
3717487.50       70.71738  (12120608)
        483487.50   3717487.50       72.58925  (14120908)                483512.50
3717487.50       74.16271  (14120908)
        483537.50   3717487.50       76.98628  (13121608)                483562.50
3717487.50       80.63178  (13121608)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                   PAGE 649
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  GEN4     ***
                                   INCLUDING SOURCE(S):     GEN4        ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        483587.50   3717487.50       83.63706  (13121608)                483612.50
3717487.50       85.84021  (13121608)
        483912.50   3717487.50      127.80664  (15012608)                483937.50
3717487.50      133.87540  (15012608)
        483962.50   3717487.50      136.43695  (15012608)                483987.50
3717487.50      136.68554  (13121808)
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        484012.50   3717487.50      139.51038  (16012608)              484037.50
3717487.50      141.99209  (16011208)
        484062.50   3717487.50      141.20910  (16011208)              484537.50
3717487.50       86.75859  (13011508)
        484562.50   3717487.50       84.59765  (16121208)              484587.50
3717487.50       83.05141  (16121208)
        484612.50   3717487.50       81.99770  (16121208)              484637.50
3717487.50       80.68248  (14011608)
        484662.50   3717487.50       85.31068  (14011508)              484687.50
3717487.50       77.40413  (14011508)
        484712.50   3717487.50       71.19247  (14011508)              484737.50
3717487.50       67.45559  (14011508)
        484762.50   3717487.50       64.10936  (14011508)              483412.50
3717512.50       70.25722  (12120608)
        483437.50   3717512.50       73.24719  (12120608)              483462.50
3717512.50       75.44016  (12120608)
        483487.50   3717512.50       76.62848  (12120608)              483512.50
3717512.50       77.87595  (14120908)
        483537.50   3717512.50       79.59184  (14120908)              483562.50
3717512.50       81.84183  (13121608)
        483587.50   3717512.50       85.92348  (13121608)              483612.50
3717512.50       89.05330  (13121608)
        483912.50   3717512.50      139.59869  (12021708)              483937.50
3717512.50      147.13117  (15012608)
        483962.50   3717512.50      151.51598  (15012608)              483987.50
3717512.50      150.44610  (15012608)
        484012.50   3717512.50      154.12431  (16012608)              484037.50
3717512.50      156.15607  (16011208)
        484062.50   3717512.50      155.47846  (16011208)              484537.50
3717512.50       90.36838  (16121208)
        484562.50   3717512.50       88.00967  (16121208)              484587.50
3717512.50       85.49837  (16121208)
        484612.50   3717512.50       84.01998  (14011508)              484637.50
3717512.50       82.46898  (14011508)
        484662.50   3717512.50       80.27460  (14011508)              484687.50
3717512.50       77.35188  (14011508)
        484712.50   3717512.50       73.20497  (14011508)              484737.50
3717512.50       68.68288  (14011508)
        484762.50   3717512.50       65.34945  (14013008)              483412.50
3717537.50       71.79221  (12120608)
        483437.50   3717537.50       76.67100  (12120608)              483462.50
3717537.50       80.19968  (12120608)
        483487.50   3717537.50       81.99170  (12120608)              483512.50
3717537.50       83.07533  (12120608)
        483537.50   3717537.50       84.11668  (12120608)              483562.50
3717537.50       85.85039  (14120908)
        483587.50   3717537.50       87.25767  (14120908)              483612.50
3717537.50       91.62011  (13121608)
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       483637.50   3717537.50       95.50558  (13121608)               483937.50
3717537.50      163.15629  (15012608)
       483962.50   3717537.50      168.67155  (15012608)               483987.50
3717537.50      168.15837  (15012608)
       484012.50   3717537.50      171.03768  (16012608)               484037.50
3717537.50      172.15447  (16011208)
       484062.50   3717537.50      172.69371  (16020408)               483412.50
3717562.50       72.45707  (12112608)
       483437.50   3717562.50       77.42481  (12120608)               483462.50
3717562.50       81.97401  (12120608)
       483487.50   3717562.50       85.34164  (12120608)               483512.50
3717562.50       87.87385  (12120608)
       483537.50   3717562.50       89.66454  (12120608)               483562.50
3717562.50       91.18517  (12120608)
       483587.50   3717562.50       92.59129  (14120908)               483612.50
3717562.50       94.00823  (14120908)
       483637.50   3717562.50       97.80137  (13121608)               483937.50
3717562.50      180.12390  (15012608)
       483962.50   3717562.50      188.69290  (15012608)               483987.50
3717562.50      188.83075  (15012608)
       484012.50   3717562.50      191.39967  (16012608)               484037.50
3717562.50      191.86874  (16012608)
       484062.50   3717562.50      195.04303  (16020408)               483412.50
3717587.50       73.33457  (12112608)
       483437.50   3717587.50       78.25003  (12112608)               483462.50
3717587.50       82.78506  (12112608)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 650
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  GEN4     ***
                                  INCLUDING SOURCE(S):     GEN4        ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
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        483487.50   3717587.50       86.46176  (12120608)              483512.50
3717587.50       90.78563  (12120608)
        483537.50   3717587.50       94.26607  (12120608)              483562.50
3717587.50       97.03228  (12120608)
        483587.50   3717587.50       98.86113  (12120608)              483612.50
3717587.50       99.28708  (14120908)
        483637.50   3717587.50      101.15275  (14120908)              484512.50
3717612.50      106.75271  (14011508)
        484537.50   3717612.50      100.93845  (14011508)              484562.50
3717612.50       95.95939  (14011508)
        484587.50   3717612.50       90.55690  (14011508)              484612.50
3717612.50       86.54329  (14013008)
        484637.50   3717612.50       83.05283  (14012908)              484662.50
3717612.50       80.18890  (14012908)
        484687.50   3717612.50       77.27919  (14012908)              484712.50
3717612.50       74.12806  (14012908)
        484737.50   3717612.50       70.26982  (14012908)              484762.50
3717612.50       66.52868  (14012908)
        484787.50   3717612.50       63.11124  (14012908)              484812.50
3717612.50       59.81569  (14012908)
        484837.50   3717612.50       55.77645  (14012908)              484862.50
3717612.50       53.62241  (12121008)
        484512.50   3717637.50      108.75714  (14011508)              484537.50
3717637.50      101.16636  (14011508)
        484562.50   3717637.50       95.33992  (14013008)              484587.50
3717637.50       91.10587  (14012908)
        484612.50   3717637.50       87.72080  (14012908)              484637.50
3717637.50       84.06543  (14012908)
        484662.50   3717637.50       80.74982  (14012908)              484687.50
3717637.50       77.20987  (14012908)
        484712.50   3717637.50       73.57731  (14012908)              484737.50
3717637.50       69.51706  (14012908)
        484762.50   3717637.50       65.53549  (14012908)              484787.50
3717637.50       62.94578  (12121008)
        484812.50   3717637.50       60.84641  (12121008)              484837.50
3717637.50       58.40634  (12121008)
        484862.50   3717637.50       55.83569  (12121008)              484512.50
3717662.50      107.40357  (14011508)
        484537.50   3717662.50      101.46369  (14012908)              484562.50
3717662.50       96.63090  (14012908)
        484587.50   3717662.50       92.36204  (14012908)              484612.50
3717662.50       88.18964  (14012908)
        484637.50   3717662.50       83.86164  (14012908)              484662.50
3717662.50       79.77674  (14012908)
        484687.50   3717662.50       76.24651  (14012908)              484712.50
3717662.50       73.29393  (12121008)
        484737.50   3717662.50       70.88604  (12121008)              484762.50
3717662.50       67.97389  (12121008)
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        484787.50   3717662.50       67.12098  (12121008)                484812.50
3717662.50       64.72633  (12121008)
        484837.50   3717662.50       60.76739  (12121008)                484862.50
3717662.50       57.41757  (12121008)
        484512.50   3717687.50      109.88236  (14012908)                484537.50
3717687.50      103.24246  (14012908)
        484562.50   3717687.50       97.70993  (14012908)                484587.50
3717687.50       92.25392  (14012908)
        484612.50   3717687.50       87.15831  (14012908)                484637.50
3717687.50       82.81252  (12121008)
        484662.50   3717687.50       79.87062  (12121008)                484687.50
3717687.50       77.50575  (12121008)
        484712.50   3717687.50       74.87012  (12121008)                484737.50
3717687.50       72.40610  (12121008)
        484762.50   3717687.50       70.57815  (12121008)                484787.50
3717687.50       69.16012  (12121008)
        484812.50   3717687.50       67.25255  (12121008)                484837.50
3717687.50       63.57342  (12121008)
        484862.50   3717687.50       58.31675  (12121008)                484512.50
3717712.50      112.66941  (14012908)
        484537.50   3717712.50      104.02807  (14012908)                484562.50
3717712.50       96.85123  (12121008)
        484587.50   3717712.50       92.61753  (12121008)                484612.50
3717712.50       88.73568  (12121008)
        484637.50   3717712.50       85.10337  (12121008)                484662.50
3717712.50       81.52556  (12121008)
        484687.50   3717712.50       78.32846  (12121008)                484712.50
3717712.50       75.17436  (12121008)
        484737.50   3717712.50       72.33086  (12121008)                484762.50
3717712.50       69.73005  (12121008)
        484787.50   3717712.50       67.17414  (12121008)                484812.50
3717712.50       65.09874  (14011008)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***        09:53:15

                                    PAGE 651
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  GEN4     ***
                                    INCLUDING SOURCE(S):     GEN4        ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                                 ** CONC OF PM_10    IN MICROGRAMS/M**3
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**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
484837.50	3717712.50	62.85276	(14011008)	484862.50	3717712.50	59.31302	(14011008)
484512.50	3717737.50	112.87184	(12121008)	484537.50	3717737.50	106.35029	(12121008)
484562.50	3717737.50	100.59042	(12121008)	484587.50	3717737.50	95.41850	(12121008)
484612.50	3717737.50	90.74007	(12121008)	484637.50	3717737.50	86.27369	(12121008)
484662.50	3717737.50	81.98463	(12121008)	484687.50	3717737.50	77.95816	(12121008)
484712.50	3717737.50	74.51263	(14011008)	484737.50	3717737.50	72.03556	(14011008)
484762.50	3717737.50	69.69911	(14011008)	484787.50	3717737.50	67.08565	(14011008)
484812.50	3717737.50	64.44892	(14011008)	484837.50	3717737.50	61.90375	(14011008)
484862.50	3717737.50	59.42710	(14011008)	484512.50	3717762.50	116.80563	(12121008)
484537.50	3717762.50	109.64155	(12121008)	484562.50	3717762.50	102.97694	(12121008)
484587.50	3717762.50	97.42704	(12121008)	484612.50	3717762.50	92.15789	(14011008)
484637.50	3717762.50	87.48256	(14011008)	484662.50	3717762.50	83.44704	(14011008)
484687.50	3717762.50	79.56666	(14011008)	484712.50	3717762.50	76.20153	(14011008)
484737.50	3717762.50	73.27390	(14011008)	484762.50	3717762.50	70.70714	(14011008)
484787.50	3717762.50	67.60349	(14011008)	484812.50	3717762.50	64.12857	(14011008)
484837.50	3717762.50	61.16930	(12010508)	484862.50	3717762.50	58.67089	(12010508)
484512.50	3717787.50	118.88654	(14011008)	484537.50	3717787.50	112.49514	(14011008)
484562.50	3717787.50	107.86120	(14011008)	484587.50	3717787.50	101.82117	(14011008)
484612.50	3717787.50	95.36817	(14011008)	484637.50	3717787.50	89.84214	(14011008)
484662.50	3717787.50	85.12433	(14011008)	484687.50	3717787.50	81.22790	(12010508)
484712.50	3717787.50	77.84811	(12010508)	484737.50	3717787.50	75.10795	(12010508)

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        484762.50   3717787.50       72.06546  (12010508)                484787.50
3717787.50       68.82501  (12010508)
        484812.50   3717787.50       65.27018  (12010508)                484837.50
3717787.50       61.65941  (12010508)
        484862.50   3717787.50       59.13971  (12010508)                483412.50
3717812.50       83.96107  (12020108)
        483437.50   3717812.50       87.55036  (12020108)                483462.50
3717812.50       91.39011  (12020108)
        483487.50   3717812.50       96.56528  (12011308)                484512.50
3717812.50      123.26801  (12010508)
        484537.50   3717812.50      118.59376  (12010508)                484562.50
3717812.50      112.74586  (12010508)
        484587.50   3717812.50      105.95121  (12010508)                484612.50
3717812.50       98.31502  (12010508)
        484637.50   3717812.50       91.91648  (12010508)                484662.50
3717812.50       87.10364  (12010508)
        484687.50   3717812.50       83.02866  (12010508)                484712.50
3717812.50       79.51264  (12010508)
        484737.50   3717812.50       76.28793  (12010508)                484762.50
3717812.50       73.13078  (12010508)
        484787.50   3717812.50       69.58475  (12010508)                484812.50
3717812.50       66.04181  (12010508)
        484837.50   3717812.50       62.55982  (12010508)                484862.50
3717812.50       59.85877  (12010508)
        483412.50   3717837.50       86.23410  (12020108)                483437.50
3717837.50       90.17028  (12020108)
        483462.50   3717837.50       94.45757  (12020108)                483487.50
3717837.50       99.50280  (12020108)
        483512.50   3717837.50      105.18692  (12020108)                484512.50
3717837.50      127.09265  (12010508)
        484537.50   3717837.50      120.85689  (12010508)                484562.50
3717837.50      114.18688  (12010508)
        484587.50   3717837.50      107.50160  (12010508)                484612.50
3717837.50       99.80394  (12010508)
        484637.50   3717837.50       92.95848  (12010508)                484662.50
3717837.50       87.69329  (12010508)
        484687.50   3717837.50       83.51323  (12010508)                484712.50
3717837.50       79.96066  (12010508)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                PAGE 652
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  GEN4     ***
```

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
484737.50	3717837.50	76.38669	(12010508)	484762.50	3717837.50	72.85370	(12010508)
484787.50	3717837.50	69.42626	(12010508)	484812.50	3717837.50	65.94542	(12010508)
484837.50	3717837.50	62.79471	(12010508)	484862.50	3717837.50	59.77638	(12010508)
483412.50	3717862.50	86.98696	(12020108)	483437.50	3717862.50	91.30190	(12020108)
483462.50	3717862.50	96.27846	(12020108)	483487.50	3717862.50	101.81044	(12020108)
483512.50	3717862.50	107.57627	(12020108)	484512.50	3717862.50	125.82439	(12010508)
484537.50	3717862.50	119.24888	(12010508)	484562.50	3717862.50	112.36957	(12010508)
484587.50	3717862.50	105.66817	(12010508)	484612.50	3717862.50	98.63865	(12010508)
484637.50	3717862.50	92.02246	(12010508)	484662.50	3717862.50	86.66402	(12010508)
484687.50	3717862.50	82.36858	(12010508)	484712.50	3717862.50	78.61598	(12010508)
484737.50	3717862.50	74.82050	(12010508)	484762.50	3717862.50	71.31767	(12010508)
484787.50	3717862.50	68.08345	(12010508)	484812.50	3717862.50	64.87747	(12010508)
484837.50	3717862.50	61.71350	(12010508)	484862.50	3717862.50	58.95290	(12010508)
483412.50	3717887.50	86.22819	(12020108)	483437.50	3717887.50	90.85677	(15121408)
483462.50	3717887.50	96.63642	(15121408)	483487.50	3717887.50	102.85415	(15121408)
483512.50	3717887.50	109.14170	(15121408)	483537.50	3717887.50	115.73551	(15121408)
484512.50	3717887.50	124.66572	(16112816)	484537.50	3717887.50	115.39461	(16112816)
484562.50	3717887.50	108.15872	(16112816)	484587.50	3717887.50	101.36074	(16112816)

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        484612.50   3717887.50       94.71504  (12010508)                484637.50
3717887.50       89.15220  (12010508)
        484662.50   3717887.50       83.93188  (12010508)                484687.50
3717887.50       79.83603  (12010508)
        484712.50   3717887.50       75.92802  (12010508)                484737.50
3717887.50       72.16459  (12010508)
        484762.50   3717887.50       68.76870  (12010508)                484787.50
3717887.50       65.65316  (12010508)
        484812.50   3717887.50       62.76001  (12010508)                484837.50
3717887.50       59.80054  (12010508)
        484862.50   3717887.50       57.11487  (12010508)                483412.50
3717912.50       87.83349  (15010208)
        483437.50   3717912.50       92.36690  (15010208)                483462.50
3717912.50       97.76455  (15010208)
        483487.50   3717912.50      107.44765  (15010208)                483512.50
3717912.50      115.59315  (15010208)
        483537.50   3717912.50      121.41342  (15010208)                483562.50
3717912.50      123.75257  (15010208)
        484512.50   3717912.50      123.16675  (16112816)                484537.50
3717912.50      113.97405  (16112816)
        484562.50   3717912.50      106.37458  (16112816)                484587.50
3717912.50       99.46481  (16112816)
        484612.50   3717912.50       93.52960  (16112816)                484637.50
3717912.50       87.52691  (16112816)
        484662.50   3717912.50       82.68127  (16112816)                484687.50
3717912.50       78.03917  (16112816)
        484712.50   3717912.50       73.98229  (16112816)                484737.50
3717912.50       70.27549  (16112816)
        484762.50   3717912.50       66.83035  (16112816)                484787.50
3717912.50       63.62191  (16112816)
        484812.50   3717912.50       60.70475  (16112816)                484837.50
3717912.50       57.98917  (16112816)
        484862.50   3717912.50       55.13511  (16112816)                483412.50
3717937.50       88.57344  (12122108)
        483437.50   3717937.50       93.05658  (12122108)                483462.50
3717937.50       97.95813  (12122108)
        483487.50   3717937.50      105.42563  (12122108)                483512.50
3717937.50      115.41545  (12122108)
        483537.50   3717937.50      122.20531  (12122108)                483562.50
3717937.50      129.76492  (12122108)
        483587.50   3717937.50      131.92743  (13012508)                484512.50
3717937.50      121.88648  (13020108)
        484537.50   3717937.50      113.82595  (13020108)                484562.50
3717937.50      106.40126  (13020108)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: GEN4 ***
INCLUDING SOURCE(S): GEN4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
484587.50	3717937.50	100.18696	(13020108)	484612.50	3717937.50	94.17251	(13020108)
484637.50	3717937.50	88.76950	(13020108)	484662.50	3717937.50	83.83726	(13020108)
484687.50	3717937.50	79.58564	(13020108)	484712.50	3717937.50	75.47033	(13020108)
484737.50	3717937.50	71.70029	(13020108)	484762.50	3717937.50	68.34041	(13020108)
484787.50	3717937.50	65.09851	(13020108)	484812.50	3717937.50	62.07212	(13020108)
484837.50	3717937.50	59.30116	(13020108)	484862.50	3717937.50	56.62522	(13020108)
483412.50	3717962.50	89.49138	(13012508)	483437.50	3717962.50	94.36351	(13012508)
483462.50	3717962.50	99.54712	(13012508)	483487.50	3717962.50	105.22932	(13012508)
483512.50	3717962.50	111.85564	(13012508)	483537.50	3717962.50	118.71593	(13012508)
483562.50	3717962.50	126.22870	(13012508)	483587.50	3717962.50	132.78847	(13012508)
483612.50	3717962.50	139.77837	(13012508)	484512.50	3717962.50	122.95286	(13020108)
484537.50	3717962.50	115.28483	(13020108)	484562.50	3717962.50	108.12159	(13020108)
484587.50	3717962.50	101.92827	(13020108)	484612.50	3717962.50	96.01861	(13020108)
484637.50	3717962.50	90.80501	(13020108)	484662.50	3717962.50	85.86628	(13020108)
484687.50	3717962.50	81.66081	(13020108)	484712.50	3717962.50	77.62478	(13020108)

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        484737.50   3717962.50       73.64778  (13020108)              484762.50
3717962.50       70.16439  (13020108)
        484787.50   3717962.50       66.97092  (13020108)              484812.50
3717962.50       63.96060  (13020108)
        484837.50   3717962.50       61.10618  (13020108)              484862.50
3717962.50       58.40835  (13020108)
        483412.50   3717987.50       92.72550  (13012508)              483437.50
3717987.50       97.53445  (13012508)
        483462.50   3717987.50      102.83529  (13012508)              483487.50
3717987.50      106.18851  (13012508)
        483512.50   3717987.50      112.13789  (13012508)              483537.50
3717987.50      118.23307  (13012508)
        483562.50   3717987.50      124.41835  (13012508)              483587.50
3717987.50      130.70358  (13012508)
        483612.50   3717987.50      137.66147  (13012508)              484512.50
3717987.50      120.65077  (13020108)
        484537.50   3717987.50      113.79755  (13020108)              484562.50
3717987.50      107.54391  (13020108)
        484587.50   3717987.50      101.51619  (13020108)              484612.50
3717987.50       96.23118  (13020108)
        484637.50   3717987.50       90.86831  (13020108)              484662.50
3717987.50       86.39232  (13020108)
        484687.50   3717987.50       81.76019  (13020108)              484712.50
3717987.50       78.11842  (13020108)
        484737.50   3717987.50       74.56894  (13020108)              484762.50
3717987.50       71.07515  (13020108)
        484787.50   3717987.50       67.90558  (13020108)              484812.50
3717987.50       64.93004  (13020108)
        484837.50   3717987.50       62.17449  (13020108)              484862.50
3717987.50       59.58931  (13020108)
        483412.50   3718012.50      101.81345  (13012508)              483437.50
3718012.50      104.98572  (13012508)
        483462.50   3718012.50      110.52094  (13012508)              483487.50
3718012.50      112.87857  (13012508)
        483512.50   3718012.50      112.95775  (13012508)              483537.50
3718012.50      115.63653  (13012508)
        483562.50   3718012.50      121.36603  (13012508)              483587.50
3718012.50      127.32078  (13012508)
        483612.50   3718012.50      134.17792  (13012508)              483637.50
3718012.50      139.54939  (16010708)
        484512.50   3718012.50      119.93374  (13011108)              484537.50
3718012.50      113.68798  (13011108)
        484562.50   3718012.50      107.21961  (13011108)              484587.50
3718012.50      100.83342  (13011108)
        484612.50   3718012.50       94.69179  (13011108)              484637.50
3718012.50       88.91947  (13020108)
        484662.50   3718012.50       84.61458  (13020108)              484687.50
3718012.50       80.82223  (13020108)
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484712.50 3718012.50 77.39954 (13020108) 484737.50 3718012.50 74.08846 (13020108)

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: GEN4 ***
INCLUDING SOURCE(S): GEN4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
484762.50	3718012.50	70.91416	(13020108)	484787.50	3718012.50	67.89334	(13020108)
484812.50	3718012.50	65.14419	(13020108)	484837.50	3718012.50	62.47994	(13020108)
484862.50	3718012.50	60.04068	(13020108)	483412.50	3718037.50	107.03395	(13012508)
483437.50	3718037.50	109.97896	(13012508)	483462.50	3718037.50	113.72205	(13012508)
483487.50	3718037.50	115.07560	(13012508)	483512.50	3718037.50	116.16805	(13012508)
483537.50	3718037.50	113.55111	(16010708)	483562.50	3718037.50	118.01058	(16010708)
483587.50	3718037.50	125.97735	(16010708)	483612.50	3718037.50	138.90191	(16010708)
483637.50	3718037.50	143.18451	(16010708)	483662.50	3718037.50	151.94315	(16010708)
484512.50	3718037.50	116.70219	(13011108)	484537.50	3718037.50	111.23199	(13011108)
484562.50	3718037.50	105.56607	(13011108)	484587.50	3718037.50	99.81563	(13011108)
484612.50	3718037.50	94.01878	(13011108)	484637.50	3718037.50	88.87620	(13011108)
484662.50	3718037.50	83.96127	(13011108)	484687.50	3718037.50	80.13499	(13011108)

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        484712.50   3718037.50       76.14944  (13011108)              484737.50
3718037.50       72.90838  (13011108)
        484762.50   3718037.50       69.49324  (13020108)              484787.50
3718037.50       66.93645  (13020108)
        484812.50   3718037.50       64.36000  (13020108)              484837.50
3718037.50       61.90984  (13020108)
        484862.50   3718037.50       59.56610  (13020108)              483412.50
3718062.50      108.05804  (13012508)
        483437.50   3718062.50      110.39412  (16010708)              483462.50
3718062.50      115.13368  (16010708)
        483487.50   3718062.50      119.24984  (16010708)              483512.50
3718062.50      120.76100  (16010708)
        483537.50   3718062.50      120.57294  (16010708)              483562.50
3718062.50      118.06364  (16010708)
        483587.50   3718062.50      132.29739  (16010708)              483612.50
3718062.50      140.97317  (16010708)
        483637.50   3718062.50      139.63372  (16010708)              483662.50
3718062.50      146.92473  (16010708)
        484512.50   3718062.50      116.56536  (15121108)              484537.50
3718062.50      108.83346  (15121108)
        484562.50   3718062.50      101.46603  (13011108)              484587.50
3718062.50       96.21584  (13011108)
        484612.50   3718062.50       91.46089  (13011108)              484637.50
3718062.50       86.48422  (13011108)
        484662.50   3718062.50       82.27189  (13011108)              484687.50
3718062.50       78.58162  (13011108)
        483412.50   3718087.50      115.78876  (16010708)              483437.50
3718087.50      121.07713  (16010708)
        483462.50   3718087.50      123.53024  (16010708)              483487.50
3718087.50      124.47163  (16010708)
        483512.50   3718087.50      126.38451  (16010708)              483537.50
3718087.50      124.35082  (16010708)
        483562.50   3718087.50      125.37268  (16010708)              483587.50
3718087.50      131.77561  (16010708)
        483612.50   3718087.50      130.60647  (16010708)              483637.50
3718087.50      137.36998  (16010708)
        483662.50   3718087.50      156.86898  (13010408)              484512.50
3718087.50      116.39390  (15121108)
        484537.50   3718087.50      109.59087  (15121108)              484562.50
3718087.50      102.86765  (15121108)
        484587.50   3718087.50       95.99687  (15121108)              484612.50
3718087.50       89.33893  (15121108)
        484637.50   3718087.50       83.45942  (13011108)              484662.50
3718087.50       79.47273  (13011108)
        484687.50   3718087.50       76.14874  (13011108)              483412.50
3718112.50      123.45072  (16010708)
        483437.50   3718112.50      126.99199  (16010708)              483462.50
3718112.50      126.45854  (16010708)
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        483487.50   3718112.50      127.12716  (16010708)                483512.50
3718112.50      128.90817  (16010708)
        483537.50   3718112.50      129.98562  (16010708)                483562.50
3718112.50      132.22145  (16010708)
        483587.50   3718112.50      126.33233  (16010708)                483612.50
3718112.50      135.90910  (13010408)
        483637.50   3718112.50      149.69104  (13010408)                483662.50
3718112.50      165.94737  (13010408)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***        09:53:15

                                    PAGE 655
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  GEN4     ***
                                    INCLUDING SOURCE(S):     GEN4        ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
        483687.50   3718112.50      183.93875  (16021808)                484512.50
3718112.50      113.98599  (15121108)
        484537.50   3718112.50      108.08710  (15121108)                484562.50
3718112.50      102.37400  (15121108)
        484587.50   3718112.50       96.35558  (15121108)                484612.50
3718112.50       90.47904  (15121108)
        484637.50   3718112.50       84.43454  (15121108)                484662.50
3718112.50       78.99985  (15121108)
        484687.50   3718112.50       74.03867  (15121108)                483412.50
3718137.50      122.54907  (16010708)
        483437.50   3718137.50      125.63574  (16010708)                483462.50
3718137.50      124.15538  (16010708)
        483487.50   3718137.50      126.29260  (16010708)                483512.50
3718137.50      128.16084  (16010708)
        483537.50   3718137.50      131.97577  (13010408)                483562.50
3718137.50      140.16209  (13010408)
        483587.50   3718137.50      147.86845  (13010408)                483612.50
3718137.50      155.53551  (13010408)
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        483637.50   3718137.50      164.73900  (13010408)              483662.50
3718137.50      173.87098  (16021808)
        483687.50   3718137.50      192.87793  (16021808)              484512.50
3718137.50      109.83630  (15121108)
        484537.50   3718137.50      105.02906  (15121108)              484562.50
3718137.50      100.44089  (15121108)
        484587.50   3718137.50       95.70710  (15121108)              484612.50
3718137.50       90.37096  (15121108)
        484637.50   3718137.50       85.01750  (15121108)              484662.50
3718137.50       80.19983  (15121108)
        484687.50   3718137.50       75.72133  (15121108)              483412.50
3718162.50      117.29529  (16010708)
        483437.50   3718162.50      120.09315  (16010708)              483462.50
3718162.50      121.24167  (16010708)
        483487.50   3718162.50      123.90923  (13010408)              483512.50
3718162.50      130.27274  (13010408)
        483537.50   3718162.50      137.33775  (13010408)              483562.50
3718162.50      147.95725  (13010408)
        483587.50   3718162.50      157.42443  (13010408)              483612.50
3718162.50      164.56662  (13010408)
        483637.50   3718162.50      168.86582  (16021808)              483662.50
3718162.50      183.64536  (16021808)
        483687.50   3718162.50      198.11231  (16021808)              484512.50
3718162.50      103.81479  (15121108)
        484537.50   3718162.50      100.70297  (15121108)              484562.50
3718162.50       96.89285  (15121108)
        484587.50   3718162.50       93.02229  (15121108)              484612.50
3718162.50       88.80436  (15121108)
        484637.50   3718162.50       84.51133  (15121108)              484662.50
3718162.50       80.37355  (15121108)
        484687.50   3718162.50       76.50972  (15121108)              484712.50
3718162.50       72.69885  (15121108)
        484737.50   3718162.50       69.15589  (15121108)              484762.50
3718162.50       65.63834  (15121108)
        484787.50   3718162.50       62.21481  (15121108)              484812.50
3718162.50       59.06748  (15121108)
        484837.50   3718162.50       55.92767  (15121108)              484862.50
3718162.50       53.64380  (13011108)
        483412.50   3718187.50      113.09600  (16010708)              483437.50
3718187.50      119.41001  (13010408)
        483462.50   3718187.50      124.15732  (13010408)              483487.50
3718187.50      128.90881  (13010408)
        483512.50   3718187.50      134.58926  (13010408)              483537.50
3718187.50      138.05911  (13010408)
        483562.50   3718187.50      147.87938  (13010408)              484512.50
3718187.50       96.62114  (15121108)
        484537.50   3718187.50       94.58169  (15121108)              484562.50
3718187.50       92.28194  (15121108)
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        484587.50   3718187.50       89.57991  (15121108)                484612.50
3718187.50       86.24785  (15121108)
        484637.50   3718187.50       82.86385  (15121108)                484662.50
3718187.50       79.32425  (15121108)
        484687.50   3718187.50       76.01645  (15121108)                484712.50
3718187.50       72.78575  (15121108)
        484737.50   3718187.50       69.50064  (15121108)                484762.50
3718187.50       66.31691  (15121108)
        484787.50   3718187.50       63.24140  (15121108)                484812.50
3718187.50       60.20939  (15121108)
        484837.50   3718187.50       57.22708  (15121108)                484862.50
3718187.50       54.73128  (15121108)
        484162.50   3718212.50      195.25871  (14021908)                484187.50
3718212.50      186.63031  (14021908)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***        09:53:15

                                    PAGE 656
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  GEN4     ***
                                    INCLUDING SOURCE(S):     GEN4        ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        484212.50   3718212.50      169.78173  (14021908)                484512.50
3718212.50       94.10273  (12010308)
        484537.50   3718212.50       88.01045  (15121108)                484562.50
3718212.50       86.73931  (15121108)
        484587.50   3718212.50       84.82259  (15121108)                484612.50
3718212.50       82.56618  (15121108)
        484637.50   3718212.50       79.92730  (15121108)                484662.50
3718212.50       77.20293  (15121108)
        484687.50   3718212.50       74.49218  (15121108)                484712.50
3718212.50       71.71574  (15121108)
        484737.50   3718212.50       68.98891  (15121108)                484762.50
3718212.50       66.20217  (15121108)
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        484787.50   3718212.50       63.36015  (15121108)              484812.50
3718212.50       60.55129  (15121108)
        484837.50   3718212.50       58.43352  (15121108)              484862.50
3718212.50       56.21584  (15121108)
        484512.50   3718237.50       95.36459  (12010308)              484537.50
3718237.50       88.78441  (12010308)
        484562.50   3718237.50       82.26271  (12010308)              484587.50
3718237.50       79.46563  (15121108)
        484612.50   3718237.50       78.10216  (15121108)              484637.50
3718237.50       76.13268  (15121108)
        484662.50   3718237.50       74.13417  (15121108)              484687.50
3718237.50       72.00547  (15121108)
        484712.50   3718237.50       69.78950  (15121108)              484737.50
3718237.50       67.58419  (15121108)
        484762.50   3718237.50       65.17294  (15121108)              484787.50
3718237.50       62.77610  (15121108)
        484812.50   3718237.50       60.50745  (15121108)              484837.50
3718237.50       58.53951  (15121108)
        484862.50   3718237.50       56.40978  (15121108)              483412.50
3718262.50      128.46629  (13010408)
        483437.50   3718262.50      133.09001  (13010408)              484137.50
3718262.50      189.03323  (14010608)
        484162.50   3718262.50      167.47123  (14010608)              484212.50
3718262.50      154.52019  (14021908)
        484512.50   3718262.50       95.26084  (12010308)              484537.50
3718262.50       89.74514  (12010308)
        484562.50   3718262.50       83.88193  (12010308)              484587.50
3718262.50       77.92670  (12010308)
        484612.50   3718262.50       72.89296  (15121108)              484637.50
3718262.50       71.76860  (15121108)
        484662.50   3718262.50       70.34204  (15121108)              484687.50
3718262.50       68.59358  (15121108)
        484712.50   3718262.50       67.05645  (15121108)              484737.50
3718262.50       65.37551  (15121108)
        484762.50   3718262.50       63.55570  (15121108)              484787.50
3718262.50       61.48591  (15121108)
        484812.50   3718262.50       59.69239  (15121108)              484837.50
3718262.50       57.88440  (15121108)
        484862.50   3718262.50       56.04375  (15121108)              483412.50
3718287.50      125.75701  (13010408)
        483437.50   3718287.50      129.50188  (13010408)              484212.50
3718287.50      150.43451  (14021908)
        484512.50   3718287.50       93.92991  (12010308)              484537.50
3718287.50       89.48490  (12010308)
        484562.50   3718287.50       84.32735  (12010308)              484587.50
3718287.50       79.03388  (12010308)
        484612.50   3718287.50       73.66190  (12010308)              484637.50
3718287.50       68.36403  (12010308)
```

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        484662.50   3718287.50       66.06448  (15121108)                484687.50
3718287.50       64.73534  (15121108)
        484712.50   3718287.50       63.56790  (15121108)                484737.50
3718287.50       62.38998  (15121108)
        484762.50   3718287.50       61.04987  (15121108)                484787.50
3718287.50       59.57566  (15121108)
        484812.50   3718287.50       57.98370  (15121108)                484837.50
3718287.50       56.47674  (15121108)
        484862.50   3718287.50       54.99301  (15121108)                483412.50
3718312.50      124.03602  (14121708)
        483437.50   3718312.50      132.61132  (14121708)                484187.50
3718312.50      146.87238  (14021908)
        483412.50   3718337.50      127.56404  (14121708)                483437.50
3718337.50      133.67610  (14121708)
        484187.50   3718337.50      139.53845  (14021908)                483412.50
3718412.50      121.87713  (14121708)
        483437.50   3718412.50      121.89803  (14121708)                483412.50
3718437.50      114.14572  (14121708)
        483437.50   3718437.50      114.95361  (12121808)                484462.50
3718462.50       72.67553  (12010208)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 657
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  GEN4     ***
                                  INCLUDING SOURCE(S):     GEN4        ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
        484487.50   3718462.50       73.62193  (12010208)                484462.50
3718487.50       67.79239  (12121416)
        484487.50   3718487.50       68.11212  (12010208)

 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
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*** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCKS   ***
INCLUDING SOURCE(S):   L0000075   , L0000076 , L0000077   , L0000078   , L0000079   ,
L0000080   , L0000081   , L0000082   , L0000083   , L0000084 , L0000085   , L0000086   , L0000087   ,
L0000088   , L0000089   , L0000090   , L0000091   , L0000092 , L0000093   , L0000094   , L0000095   ,
L0000096   , L0000097   , L0000098   , L0000099   , L0000100 , L0000101   , L0000102   , . . .   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10   IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
481950.00	3715450.00	4.01488	(14010909)	482050.00	3715450.00	3.84425	(14010909)
482150.00	3715450.00	3.80938	(16051108)	482250.00	3715450.00	4.22399	(16051108)
482350.00	3715450.00	4.45517	(16051108)	482450.00	3715450.00	4.42294	(16051108)
482550.00	3715450.00	5.11912	(12012316)	482650.00	3715450.00	6.32317	(12012316)
482750.00	3715450.00	7.32142	(12012316)	482850.00	3715450.00	7.89648	(12012316)
482950.00	3715450.00	7.83056	(12012316)	483050.00	3715450.00	7.16472	(12012316)
483150.00	3715450.00	5.96950	(12012316)	483250.00	3715450.00	4.77859	(12021708)
483350.00	3715450.00	4.63740	(12021708)	483450.00	3715450.00	4.70016	(12020608)
483550.00	3715450.00	5.56345	(12020608)	483650.00	3715450.00	6.27138	(12020608)
483750.00	3715450.00	6.91794	(12020608)	483850.00	3715450.00	7.31973	(12020608)
483950.00	3715450.00	7.34953	(12020608)	484050.00			

3715450.00 7.01148 (12020608)
484150.00 3715450.00 6.63722 (12110208) 484250.00
3715450.00 7.24131 (12110208)
484350.00 3715450.00 6.80430 (12110208) 484450.00
3715450.00 5.50583 (12110208)
481950.00 3715550.00 4.21291 (14010909) 482050.00
3715550.00 4.13750 (14010909)
482150.00 3715550.00 3.91916 (14010909) 482250.00
3715550.00 4.06901 (16051108)
482350.00 3715550.00 4.41596 (16051108) 482550.00
3715550.00 4.53465 (12012316)
482650.00 3715550.00 5.85562 (12012316) 482750.00
3715550.00 7.05609 (12012316)
482850.00 3715550.00 7.90918 (12012316) 482950.00
3715550.00 8.21588 (12012316)
483050.00 3715550.00 7.82676 (12012316) 483150.00
3715550.00 6.76413 (12012316)
483250.00 3715550.00 5.27668 (12012316) 483350.00
3715550.00 5.00472 (12021708)
483450.00 3715550.00 4.81368 (12020608) 483550.00
3715550.00 5.75857 (12020608)
483650.00 3715550.00 6.61558 (12020608) 483750.00
3715550.00 7.27422 (12020608)
483850.00 3715550.00 7.80389 (12020608) 483950.00
3715550.00 7.86506 (12020608)
484050.00 3715550.00 7.54719 (12020608) 484250.00
3715550.00 7.75829 (12110208)
484350.00 3715550.00 7.11355 (12110208) 484450.00
3715550.00 5.59614 (12110208)
484550.00 3715550.00 5.71232 (16112908) 484950.00
3715550.00 36.78115 (15012908)
485050.00 3715550.00 37.75648 (13010908) 481950.00
3715650.00 4.34342 (14010909)
482050.00 3715650.00 4.36064 (14010909) 482150.00
3715650.00 4.27049 (14010909)
482250.00 3715650.00 4.03882 (14010909) 482350.00
3715650.00 4.28970 (16051108)
482450.00 3715650.00 4.64860 (16051108) 482650.00
3715650.00 5.26771 (12012316)
482750.00 3715650.00 6.68707 (12012316) 482850.00
3715650.00 7.83204 (12012316)
482950.00 3715650.00 8.43376 (12012316) 483050.00
3715650.00 8.38370 (12012316)
483150.00 3715650.00 7.57308 (12012316) 483250.00
3715650.00 6.14349 (12012316)
483350.00 3715650.00 5.46087 (12021708) 483450.00
3715650.00 5.16623 (12021708)
483550.00 3715650.00 6.01838 (12020608) 483650.00

3715650.00 6.90167 (12020608)
483750.00 3715650.00 7.79567 (12020608) 483850.00
3715650.00 8.13534 (12020608)
483950.00 3715650.00 8.40549 (12020608) 484050.00
3715650.00 7.88401 (12020608)
484150.00 3715650.00 7.81096 (12110208) 484350.00
3715650.00 7.47632 (12110208)
484450.00 3715650.00 5.71473 (16112908) 484550.00
3715650.00 5.94223 (16112908)
484650.00 3715650.00 6.61602 (13120908) 484750.00
3715650.00 7.40477 (13120908)
*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCKS ***
INCLUDING SOURCE(S): L0000075 , L0000076 , L0000077 , L0000078 , L0000079 ,
L0000080 , L0000081 , L0000082 , L0000083 , L0000084 , L0000085 , L0000086 , L0000087 ,
L0000088 , L0000089 , L0000090 , L0000091 , L0000092 , L0000093 , L0000094 , L0000095 ,
L0000096 , L0000097 , L0000098 , L0000099 , L0000100 , L0000101 , L0000102 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
484950.00	3715650.00	9.18098	(14011408)	485050.00	3715650.00	9.33691	(14011408)
481950.00	3715750.00	4.37373	(14010909)	482050.00	3715750.00	4.50250	(14010909)
482150.00	3715750.00	4.49169	(14010909)	482250.00	3715750.00	4.36449	(14010909)
482350.00	3715750.00	4.14364	(14010909)	482450.00	3715750.00	4.58159	(16051108)

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        482550.00   3715750.00        4.92105  (16051108)              482750.00
3715750.00        6.10008  (12012316)
        482850.00   3715750.00        7.60720  (12012316)              482950.00
3715750.00        8.57715  (12012316)
        483050.00   3715750.00        8.91953  (12012316)              483150.00
3715750.00        8.41452  (12012316)
        483250.00   3715750.00        7.07857  (12012316)              483350.00
3715750.00        5.91443  (12021708)
        483450.00   3715750.00        5.62010  (12021708)              483550.00
3715750.00        6.26827  (12020608)
        483650.00   3715750.00        7.29084  (12020608)              483750.00
3715750.00        8.22840  (12020608)
        483850.00   3715750.00        8.75477  (12020608)              483950.00
3715750.00        8.88637  (12020608)
        484050.00   3715750.00        8.58327  (12020608)              484150.00
3715750.00        8.53519  (12110208)
        484250.00   3715750.00        8.90073  (12110208)              484550.00
3715750.00        6.24566  (13120908)
        484650.00   3715750.00        7.00635  (13120908)              484750.00
3715750.00        7.63164  (14011408)
        484850.00   3715750.00        8.37673  (14011408)              484950.00
3715750.00        8.91978  (14011408)
        485050.00   3715750.00        9.06927  (14011408)              481950.00
3715850.00        4.31307  (14010909)
        482050.00   3715850.00        4.55642  (14010909)              482150.00
3715850.00        4.64691  (14010909)
        482250.00   3715850.00        4.68384  (14010909)              482350.00
3715850.00        4.54377  (14010909)
        482450.00   3715850.00        4.37582  (16051108)              482550.00
3715850.00        4.89075  (16051108)
        482650.00   3715850.00        5.17038  (16051108)              482750.00
3715850.00        5.44603  (12012316)
        482850.00   3715850.00        7.10224  (12012316)              482950.00
3715850.00        8.50428  (12012316)
        483050.00   3715850.00        9.25708  (12012316)              483150.00
3715850.00        9.18064  (12012316)
        483350.00   3715850.00        6.36268  (12021708)              483450.00
3715850.00        6.18652  (12021708)
        483550.00   3715850.00        6.50401  (12020608)              483650.00
3715850.00        7.70941  (12020608)
        483750.00   3715850.00        8.89949  (12020608)              483850.00
3715850.00        9.50761  (12020608)
        483950.00   3715850.00        9.51989  (12020608)              484050.00
3715850.00        9.26879  (12020608)
        484150.00   3715850.00        9.37153  (12110208)              484250.00
3715850.00        9.60182  (12110208)
        484550.00   3715850.00        7.06481  (13120908)              484650.00
3715850.00        7.65596  (13120908)
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        484750.00   3715850.00        8.30534  (14011408)                484850.00
3715850.00        8.95306  (14011408)
        485150.00   3715850.00        8.96284  (12021608)                485250.00
3715850.00        9.19636  (13112216)
        481950.00   3715950.00        4.13756  (14010909)                482050.00
3715950.00        4.45298  (14010909)
        482150.00   3715950.00        4.71739  (14010909)                482250.00
3715950.00        4.88546  (14010909)
        482350.00   3715950.00        4.88358  (14010909)                482450.00
3715950.00        4.72210  (14010909)
        482550.00   3715950.00        4.71429  (16051108)                482650.00
3715950.00        5.21361  (16051108)
        482750.00   3715950.00        5.41255  (16051108)                482850.00
3715950.00        6.41001  (12012316)
        482950.00   3715950.00        8.18411  (12012316)                483050.00
3715950.00        9.46514  (12012316)
        483350.00   3715950.00        7.45662  (12012316)                483450.00
3715950.00        6.86582  (12021708)
        483550.00   3715950.00        6.73600  (12020608)                483650.00
3715950.00        8.13723  (12020608)
        483750.00   3715950.00        9.32066  (12020608)                483850.00
3715950.00       10.33476  (12020608)
        483950.00   3715950.00       10.23666  (12020608)                484050.00
3715950.00        9.94436  (12020608)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***        09:53:15

                                    PAGE 660
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  TRUCKS   ***
                                    INCLUDING SOURCE(S):     L0000075    , L0000076
, L0000077    , L0000078    , L0000079    ,
                  L0000080    , L0000081    , L0000082    , L0000083    , L0000084
, L0000085    , L0000086    , L0000087    ,
                  L0000088    , L0000089    , L0000090    , L0000091    , L0000092
, L0000093    , L0000094    , L0000095    ,
                  L0000096    , L0000097    , L0000098    , L0000099    , L0000100
, L0000101    , L0000102    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **
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      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)             X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
        484150.00   3715950.00       10.34755  (12110208)               484250.00
3715950.00       10.38812  (12110208)
        484850.00   3715950.00        9.69235  (14011408)               485150.00
3715950.00        9.31508  (13112216)
        485250.00   3715950.00        9.84020  (13112216)               481950.00
3716050.00        4.09624  (14021108)
        482050.00   3716050.00        4.27143  (14010909)               482150.00
3716050.00        4.65068  (14010909)
        482250.00   3716050.00        4.94528  (14010909)               482350.00
3716050.00        5.09560  (14010909)
        482450.00   3716050.00        5.09235  (14010909)               482550.00
3716050.00        4.92085  (14010909)
        482650.00   3716050.00        5.08724  (16051108)               482750.00
3716050.00        5.55695  (16051108)
        482850.00   3716050.00        5.69614  (16051108)               482950.00
3716050.00        7.57177  (12012316)
        483050.00   3716050.00        9.33317  (12012316)               483150.00
3716050.00       10.30771  (12012316)
        483350.00   3716050.00        8.72499  (12012316)               483450.00
3716050.00        7.50793  (12021708)
        483550.00   3716050.00        7.16589  (12021708)               483650.00
3716050.00        8.53828  (12020608)
        483750.00   3716050.00       10.10442  (12020608)               483850.00
3716050.00       11.11657  (12020608)
        483950.00   3716050.00       11.26823  (12020608)               484050.00
3716050.00       10.67779  (12020608)
        484150.00   3716050.00       11.46281  (12110208)               484250.00
3716050.00       11.23867  (12110208)
        484450.00   3716050.00        7.63116  (13120908)               484750.00
3716050.00       10.15326  (14011408)
        484850.00   3716050.00       10.44676  (14011408)               485050.00
3716050.00        9.88423  (12021608)
        485150.00   3716050.00        9.83144  (13112216)               485250.00
3716050.00       10.42297  (16020808)
        485350.00   3716050.00       10.37357  (16120208)               485450.00
3716050.00       10.98096  (16120208)
        481950.00   3716150.00        4.54407  (14021108)               482050.00
3716150.00        4.34649  (14021108)
        482150.00   3716150.00        4.44655  (14010909)               482250.00
3716150.00        4.86369  (14010909)
        482350.00   3716150.00        5.18337  (14010909)               482450.00
3716150.00        5.34463  (14010909)
        482550.00   3716150.00        5.32830  (14010909)               482650.00
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3716150.00 5.11807 (14010909)
482750.00 3716150.00 5.50889 (16051108) 482850.00
3716150.00 5.95205 (16051108)
482950.00 3716150.00 6.74927 (12012316) 483050.00
3716150.00 8.92296 (12012316)
483150.00 3716150.00 10.53650 (12012316) 483450.00
3716150.00 8.19610 (12021708)
483550.00 3716150.00 8.00981 (12021708) 483650.00
3716150.00 9.05627 (12020608)
483750.00 3716150.00 10.85465 (12020608) 483850.00
3716150.00 12.02042 (12020608)
483950.00 3716150.00 12.38626 (12020608) 484150.00
3716150.00 12.74953 (12110208)
484250.00 3716150.00 12.18745 (12110208) 484350.00
3716150.00 9.26152 (12110208)
484450.00 3716150.00 8.77114 (13120908) 484850.00
3716150.00 11.21020 (14011408)
484950.00 3716150.00 10.73124 (14011408) 485150.00
3716150.00 10.28991 (16020808)
485250.00 3716150.00 10.53278 (16120208) 485350.00
3716150.00 11.07497 (16120208)
485450.00 3716150.00 11.36946 (16120208) 481950.00
3716250.00 4.87249 (14021108)
482050.00 3716250.00 4.81079 (14021108) 482150.00
3716250.00 4.63213 (14021108)
482250.00 3716250.00 4.63578 (14010909) 482350.00
3716250.00 5.08797 (14010909)
482450.00 3716250.00 5.43547 (14010909) 482550.00
3716250.00 5.61867 (14010909)
482650.00 3716250.00 5.59251 (14010909) 482750.00
3716250.00 5.33263 (14010909)
482850.00 3716250.00 6.00715 (16051108) 482950.00
3716250.00 6.39162 (16051108)
483050.00 3716250.00 8.18211 (12012316) 483150.00
3716250.00 10.43553 (12012316)
483450.00 3716250.00 9.57336 (12012316) 483550.00
3716250.00 8.89889 (12021708)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCKS ***
INCLUDING SOURCE(S): L0000075 , L0000076

```
, L0000077    , L0000078    , L0000079    ,
                L0000080    , L0000081    , L0000082    , L0000083    , L0000084
, L0000085    , L0000086    , L0000087    ,
                L0000088    , L0000089    , L0000090    , L0000091    , L0000092
, L0000093    , L0000094    , L0000095    ,
                L0000096    , L0000097    , L0000098    , L0000099    , L0000100
, L0000101    , L0000102    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        483650.00   3716250.00        9.65115  (12020608)                483750.00
3716250.00       11.65517  (12020608)
        483850.00   3716250.00       13.07088  (12020608)                483950.00
3716250.00       13.45709  (12020608)
        484150.00   3716250.00       14.32182  (12110208)                484850.00
3716250.00       12.21256  (14011408)
        484950.00   3716250.00       11.66615  (12021608)                485050.00
3716250.00       10.83146  (16020808)
        485150.00   3716250.00       11.00514  (16120208)                485250.00
3716250.00       11.63097  (16120208)
        485350.00   3716250.00       11.97672  (16120208)                481950.00
3716350.00        5.05884  (14021108)
        482050.00   3716350.00        5.14325  (14021108)                482150.00
3716350.00        5.10231  (14021108)
        482250.00   3716350.00        4.96509  (14021108)                482350.00
3716350.00        4.84213  (14010909)
        482450.00   3716350.00        5.34165  (14010909)                482550.00
3716350.00        5.72841  (14010909)
        482650.00   3716350.00        5.93192  (14010909)                482750.00
3716350.00        5.89533  (14010909)
        482850.00   3716350.00        5.76923  (16051108)                482950.00
3716350.00        6.58326  (16051108)
        483050.00   3716350.00        7.16952  (12012316)                483150.00
3716350.00        9.93102  (12012316)
        483450.00   3716350.00       11.42709  (12012316)                483550.00
3716350.00        9.90491  (12021708)
        483650.00   3716350.00       10.20796  (12020608)                483750.00
3716350.00       12.60365  (12020608)
        483850.00   3716350.00       14.35085  (12020608)                483950.00
3716350.00       14.88698  (12020608)
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        484850.00   3716350.00       12.76821  (12021608)              484950.00
3716350.00       12.80921  (13112216)
        481950.00   3716450.00        5.06862  (14021108)              482550.00
3716450.00        5.63498  (14010909)
        482650.00   3716450.00        6.07293  (14010909)              482750.00
3716450.00        6.29320  (14010909)
        482850.00   3716450.00        6.20301  (14010909)              482950.00
3716450.00        6.45631  (16051108)
        483050.00   3716450.00        7.26463  (16051108)              483150.00
3716450.00        9.01929  (12012316)
        483450.00   3716450.00       13.41637  (12012316)              483550.00
3716450.00       11.08633  (12021708)
        483650.00   3716450.00       10.81387  (12020608)              483750.00
3716450.00       13.56407  (12020608)
        483850.00   3716450.00       15.79601  (12020608)              483950.00
3716450.00       16.56626  (12020608)
        484050.00   3716450.00       15.75891  (12020608)              485150.00
3716450.00       14.43534  (16120208)
        482650.00   3716550.00        5.99500  (14010909)              482750.00
3716550.00        6.46850  (14010909)
        482850.00   3716550.00        6.68105  (14010909)              482950.00
3716550.00        6.75924  (14112608)
        483450.00   3716550.00       15.38462  (12012316)              483550.00
3716550.00       13.44583  (12012316)
        483650.00   3716550.00       12.38212  (12021708)              483750.00
3716550.00       14.97061  (12020608)
        483850.00   3716550.00       17.64921  (12020608)              483950.00
3716550.00       18.78400  (12020608)
        484050.00   3716550.00       18.09840  (12110208)              484950.00
3716550.00       14.54526  (16120208)
        485050.00   3716550.00       16.18509  (16120208)              485150.00
3716550.00       16.76002  (12122516)
        482850.00   3716650.00        6.87760  (14010909)              482950.00
3716650.00        7.31252  (14112608)
        483450.00   3716650.00       17.07569  (12012316)              483550.00
3716650.00       16.48141  (12012316)
        483650.00   3716650.00       14.49514  (12021708)              483750.00
3716650.00       16.78671  (12020608)
        483850.00   3716650.00       19.84020  (12020608)              483950.00
3716650.00       21.56005  (12020608)
        484050.00   3716650.00       21.38538  (12110208)              485250.00
3716650.00       18.07377  (12122516)
        481950.00   3716750.00        4.95540  (16090808)              482650.00
3716750.00        6.69325  (13040509)
        482750.00   3716750.00        6.86516  (14112608)              482850.00
3716750.00        7.31221  (14112608)
        482950.00   3716750.00        7.97710  (14112608)              483050.00
3716750.00        8.62246  (14112608)
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       483150.00   3716750.00        9.39857  (14112608)               483450.00
3716750.00       18.20507  (12012316)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                       ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                      ***        09:53:15

                                  PAGE 662
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  TRUCKS   ***
                                  INCLUDING SOURCE(S):     L0000075    , L0000076
, L0000077    , L0000078    , L0000079    ,
                  L0000080    , L0000081    , L0000082    , L0000083    , L0000084
, L0000085    , L0000086    , L0000087    ,
                  L0000088    , L0000089    , L0000090    , L0000091    , L0000092
, L0000093    , L0000094    , L0000095    ,
                  L0000096    , L0000097    , L0000098    , L0000099    , L0000100
, L0000101    , L0000102    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
       483550.00   3716750.00       19.73304  (12012316)               483650.00
3716750.00       17.98174  (12021708)
       483750.00   3716750.00       19.65750  (12020608)               483850.00
3716750.00       22.73260  (12020608)
       483950.00   3716750.00       24.84696  (12020608)               484050.00
3716750.00       25.61770  (12110208)
       485150.00   3716750.00       21.24306  (12122516)               485250.00
3716750.00       17.77056  (12122516)
       485350.00   3716750.00       13.89158  (12122516)               485450.00
3716750.00       11.21887  (13011408)
       485550.00   3716750.00       10.32558  (13010208)               485650.00
3716750.00        9.29616  (15112616)
       481950.00   3716850.00        5.83925  (14120216)               482050.00
3716850.00        5.70776  (14120216)
       482150.00   3716850.00        5.46578  (16090808)               482650.00
3716850.00        6.91208  (13040509)
       482750.00   3716850.00        7.33869  (14112608)               482850.00
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3716850.00 7.95041 (14112608)
482950.00 3716850.00 8.71665 (14112608) 483050.00
3716850.00 9.57771 (14112608)
483150.00 3716850.00 10.39751 (14112608) 483250.00
3716850.00 11.50271 (14122316)
484050.00 3716850.00 31.45877 (12110208) 485550.00
3716850.00 11.20644 (15112616)
485650.00 3716850.00 10.76966 (15112616) 481950.00
3716950.00 6.30075 (14120216)
482050.00 3716950.00 6.45845 (14120216) 482150.00
3716950.00 6.51938 (14120216)
482250.00 3716950.00 6.44743 (14120216) 482350.00
3716950.00 6.22261 (14120216)
482450.00 3716950.00 6.85873 (16090808) 483150.00
3716950.00 11.47624 (14112608)
483250.00 3716950.00 12.54830 (14112608) 485550.00
3716950.00 12.37544 (15112616)
485650.00 3716950.00 11.89287 (15112616) 481950.00
3717050.00 6.11355 (14120216)
482050.00 3717050.00 6.55548 (14120216) 482150.00
3717050.00 6.95245 (14120216)
482250.00 3717050.00 7.26571 (14120216) 482350.00
3717050.00 7.44971 (14120216)
482450.00 3717050.00 7.48091 (14120216) 482550.00
3717050.00 7.31880 (14120216)
482650.00 3717050.00 8.06064 (16090808) 482850.00
3717050.00 9.25027 (16090808)
482950.00 3717050.00 10.20889 (14112608) 483250.00
3717050.00 14.25399 (14112608)
485350.00 3717050.00 14.48697 (15112616) 485450.00
3717050.00 14.49146 (15112616)
485550.00 3717050.00 13.42988 (15112616) 485650.00
3717050.00 12.50009 (15112616)
486250.00 3717050.00 47.33670 (13013008) 481950.00
3717150.00 5.28509 (14120216)
482050.00 3717150.00 5.92117 (14120216) 482150.00
3717150.00 6.57346 (14120216)
482250.00 3717150.00 7.19315 (14120216) 482350.00
3717150.00 7.80231 (14120216)
482450.00 3717150.00 8.34728 (14120216) 482550.00
3717150.00 8.76077 (14120216)
482650.00 3717150.00 9.00386 (14120216) 482750.00
3717150.00 8.98992 (14120216)
482850.00 3717150.00 9.93035 (16090808) 482950.00
3717150.00 10.99313 (16090808)
483050.00 3717150.00 12.33038 (14112608) 485350.00
3717150.00 16.21033 (15112616)
485450.00 3717150.00 15.05095 (15112616) 485550.00

3717150.00 13.41717 (15112616)
485650.00 3717150.00 12.27244 (15112616) 481950.00
3717250.00 4.61303 (13022208)
482050.00 3717250.00 4.74037 (14112608) 482150.00
3717250.00 5.43019 (14120216)
482250.00 3717250.00 6.24408 (14120216) 482350.00
3717250.00 7.10962 (14120216)
482450.00 3717250.00 8.01870 (14120216) 482550.00
3717250.00 8.97088 (14120216)
482650.00 3717250.00 9.90643 (14120216) 482750.00
3717250.00 10.74435 (14120216)
482850.00 3717250.00 11.38977 (14120216) 482950.00
3717250.00 11.70767 (14120216)
483050.00 3717250.00 13.17203 (14112608) 483150.00
3717250.00 15.20866 (14112608)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCKS ***
INCLUDING SOURCE(S): L0000075 , L0000076 , L0000077 , L0000078 , L0000079 ,
L0000080 , L0000081 , L0000082 , L0000083 , L0000084 , L0000085 , L0000086 , L0000087 ,
L0000088 , L0000089 , L0000090 , L0000091 , L0000092 , L0000093 , L0000094 , L0000095 ,
L0000096 , L0000097 , L0000098 , L0000099 , L0000100 , L0000101 , L0000102 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
483250.00	3717250.00	17.61979	(14112608)	483350.00	3717250.00	21.20321	(12122016)
483450.00	3717250.00	24.37631	(14112516)	483850.00	3717250.00	51.80403	(12012316)

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        483950.00   3717250.00       73.34057  (12020608)              486150.00
3717250.00        8.87872  (15122816)
        486250.00   3717250.00        8.62927  (15122816)              481950.00
3717350.00        4.71049  (13022208)
        482050.00   3717350.00        4.84911  (14112608)              482150.00
3717350.00        5.25944  (14112608)
        482250.00   3717350.00        5.75452  (14112608)              482350.00
3717350.00        6.31416  (14112608)
        482450.00   3717350.00        6.95147  (14112608)              482550.00
3717350.00        7.76774  (14120216)
        482650.00   3717350.00        9.12738  (14120216)              482750.00
3717350.00       10.63498  (14120216)
        482850.00   3717350.00       12.26148  (14120216)              482950.00
3717350.00       13.91652  (14120216)
        483050.00   3717350.00       15.40309  (14120216)              483150.00
3717350.00       16.46614  (14120216)
        483250.00   3717350.00       19.28577  (14112608)              483350.00
3717350.00       22.92201  (14112608)
        483450.00   3717350.00       28.24194  (12122016)              483850.00
3717350.00       88.23122  (12012316)
        483950.00   3717350.00       97.43061  (12020608)              484050.00
3717350.00      143.58679  (12110208)
        484650.00   3717350.00       53.30003  (12122516)              484750.00
3717350.00       34.09213  (15112616)
        486050.00   3717350.00        9.40631  (15122816)              486150.00
3717350.00        9.12038  (15122816)
        486250.00   3717350.00        8.80111  (15122816)              481950.00
3717450.00        4.60194  (12031408)
        482050.00   3717450.00        4.95095  (14112608)              482150.00
3717450.00        5.36892  (14112608)
        482250.00   3717450.00        5.88882  (14112608)              482350.00
3717450.00        6.45568  (14112608)
        482450.00   3717450.00        7.12612  (14112608)              482750.00
3717450.00       10.01600  (14112608)
        482850.00   3717450.00       11.34905  (14112608)              482950.00
3717450.00       13.10385  (14120216)
        483050.00   3717450.00       16.00903  (14120216)              483150.00
3717450.00       19.28225  (14120216)
        483250.00   3717450.00       22.70088  (14120216)              483350.00
3717450.00       25.79914  (14120216)
        483450.00   3717450.00       31.38801  (14112608)              483550.00
3717450.00       39.40819  (14112608)
        483850.00   3717450.00      142.66410  (12012316)              483950.00
3717450.00      132.25154  (12020608)
        484050.00   3717450.00      224.20614  (12110208)              484550.00
3717450.00       67.37760  (12122516)
        484650.00   3717450.00       47.39125  (15112616)              484750.00
3717450.00       40.34440  (15112616)
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        481950.00   3717550.00        4.63961  (14112608)               482050.00
3717550.00        5.03395  (14112608)
        482150.00   3717550.00        5.48315  (14112608)               482250.00
3717550.00        5.99200  (14112608)
        482350.00   3717550.00        6.59184  (14112608)               482450.00
3717550.00        7.29035  (14112608)
        482750.00   3717550.00       10.30796  (14112608)               482850.00
3717550.00       11.73956  (14112608)
        482950.00   3717550.00       13.46732  (14112608)               483050.00
3717550.00       15.71870  (14112608)
        483250.00   3717550.00       22.55789  (14112608)               483350.00
3717550.00       29.06096  (14120216)
        483450.00   3717550.00       37.55438  (14120216)               483550.00
3717550.00       48.00878  (14120216)
        483950.00   3717550.00      323.43667  (12012316)               484050.00
3717550.00      389.08860  (12110208)
        485850.00   3717550.00       11.05115  (15122816)               485950.00
3717550.00       10.35775  (15122816)
        481950.00   3717650.00       26.96385  (15121408)               482050.00
3717650.00        5.08072  (14112608)
        482150.00   3717650.00        5.53976  (14112608)               482250.00
3717650.00        6.06547  (14112608)
        482350.00   3717650.00        6.68050  (14112608)               482450.00
3717650.00        7.39736  (14112608)
        482550.00   3717650.00        8.25440  (14112608)               482650.00
3717650.00        9.26768  (14112608)
        482750.00   3717650.00       10.50981  (14112608)               482850.00
3717650.00       12.00950  (14112608)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 664
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  TRUCKS   ***
                                  INCLUDING SOURCE(S):     L0000075    , L0000076
, L0000077    , L0000078    , L0000079    ,
                L0000080    , L0000081    , L0000082    , L0000083    , L0000084
, L0000085    , L0000086    , L0000087    ,
                L0000088    , L0000089    , L0000090    , L0000091    , L0000092
, L0000093    , L0000094    , L0000095    ,
                L0000096    , L0000097    , L0000098    , L0000099    , L0000100
, L0000101    , L0000102    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
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***

** CONC OF PM_10 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
482950.00	3717650.00	13.88291	(14112608)	483350.00	3717650.00	29.71657	(14112608)
484550.00	3717650.00	61.54920	(15122816)	484650.00	3717650.00	51.41736	(15122816)
484750.00	3717650.00	43.29317	(15122816)	484850.00	3717650.00	36.31246	(15122816)
485150.00	3717650.00	23.63731	(15122816)	485450.00	3717650.00	15.18008	(15122816)
485550.00	3717650.00	13.94706	(15122816)	482250.00	3717750.00	6.09842	(14112608)
482350.00	3717750.00	31.59150	(15121408)	482450.00	3717750.00	39.67240	(15121408)
482550.00	3717750.00	28.87982	(15121408)	482650.00	3717750.00	14.51746	(15121408)
482750.00	3717750.00	10.61357	(14112608)	482850.00	3717750.00	12.15139	(14112608)
482950.00	3717750.00	14.10388	(14112608)	484550.00	3717750.00	65.79994	(15122816)
484650.00	3717750.00	51.86581	(15122816)	484750.00	3717750.00	42.47244	(15122816)
484850.00	3717750.00	34.91381	(15122816)	485150.00	3717750.00	21.41421	(15122816)
485450.00	3717750.00	13.69032	(15122816)	485550.00	3717750.00	12.50972	(15122816)
485650.00	3717750.00	11.51541	(15122816)	485750.00	3717750.00	10.37058	(15122816)
485850.00	3717750.00	9.45048	(15122816)	485950.00	3717750.00	8.73051	(15122816)
486050.00	3717750.00	8.12604	(15122816)	482250.00	3717850.00	38.99220	(15121408)
482650.00	3717850.00	56.27700	(15121408)	482750.00	3717850.00	18.94125	(15121408)
482850.00	3717850.00	12.15068	(14112608)	482950.00	3717850.00	14.10679	(14112608)
483350.00	3717850.00	30.61873	(14112608)	483450.00	3717850.00	39.92847	(14112608)
484550.00	3717850.00	63.10005	(16123016)	484650.00	3717850.00	43.82103	(16123016)
484750.00	3717850.00	35.57641	(15122816)	484850.00			

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3717850.00       29.17540  (15122816)
        484950.00   3717850.00       24.30211  (15122816)                485150.00
3717850.00       17.60714  (15122816)
        485250.00   3717850.00       15.18500  (15122816)                485450.00
3717850.00       12.00073  (15122816)
        485550.00   3717850.00       10.91514  (15122816)                485650.00
3717850.00        9.90838  (15122816)
        485750.00   3717850.00        8.89096  (15122816)                485850.00
3717850.00        8.25290  (15122816)
        485950.00   3717850.00        7.75075  (15122816)                486050.00
3717850.00        7.11645  (14021809)
        481950.00   3717950.00       49.82605  (12122108)                482250.00
3717950.00       65.72608  (12122108)
        482350.00   3717950.00       68.73914  (12122108)                482750.00
3717950.00       46.44103  (15121408)
        483350.00   3717950.00       29.49015  (14112608)                483450.00
3717950.00       37.94171  (14112608)
        483550.00   3717950.00       54.56856  (16021808)                484550.00
3717950.00       76.42559  (16123016)
        484650.00   3717950.00       60.15823  (16123016)                484750.00
3717950.00       47.21643  (16123016)
        484850.00   3717950.00       36.88073  (16123016)                484950.00
3717950.00       28.65880  (16123016)
        485350.00   3717950.00       12.10219  (14010316)                485450.00
3717950.00       10.61148  (16112816)
        485550.00   3717950.00        9.99468  (16112816)                485650.00
3717950.00        8.94350  (16112816)
        485750.00   3717950.00        8.37410  (14021809)                485850.00
3717950.00        8.02370  (14021809)
        485950.00   3717950.00        7.72419  (14021809)                486050.00
3717950.00        7.43221  (14021809)
        481950.00   3718050.00       41.57036  (13012508)                482050.00
3718050.00       45.63299  (13012508)
        482750.00   3718050.00       44.47426  (13012508)                482850.00
3718050.00       20.99028  (15121408)
        482950.00   3718050.00       26.87973  (15121408)                483050.00
3718050.00       22.29075  (15121408)
        483150.00   3718050.00       24.82308  (15121408)                483250.00
3718050.00       26.92162  (15121408)
        483350.00   3718050.00       36.61894  (16021808)                483450.00
3718050.00       45.34244  (16021808)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 665
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCKS ***
INCLUDING SOURCE(S): L0000075 , L0000076 , L0000077 , L0000078 , L0000079 ,
L0000080 , L0000081 , L0000082 , L0000083 , L0000084 , L0000085 , L0000086 , L0000087 ,
L0000088 , L0000089 , L0000090 , L0000091 , L0000092 , L0000093 , L0000094 , L0000095 ,
L0000096 , L0000097 , L0000098 , L0000099 , L0000100 , L0000101 , L0000102 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
483550.00	3718050.00	63.90432	(16021808)	483650.00	3718050.00	96.50672	(14120316)
484550.00	3718050.00	68.32070	(15121016)	484650.00	3718050.00	53.16111	(15121016)
485450.00	3718050.00	14.68988	(16123016)	485550.00	3718050.00	12.32009	(16123016)
485650.00	3718050.00	10.27818	(16123016)	485750.00	3718050.00	8.56872	(16123016)
485850.00	3718050.00	7.33435	(14021809)	485950.00	3718050.00	7.14646	(14021809)
486050.00	3718050.00	6.96794	(14021809)	481950.00	3718150.00	59.06796	(13012508)
482050.00	3718150.00	54.83976	(13012508)	482150.00	3718150.00	54.67340	(13012508)
482250.00	3718150.00	58.47647	(13012508)	482350.00	3718150.00	64.43233	(13012508)
482650.00	3718150.00	58.43975	(13012508)	482750.00	3718150.00	35.83210	(13012508)
482850.00	3718150.00	81.71899	(16010708)	482950.00	3718150.00	91.27942	(16010708)
483050.00	3718150.00	88.14548	(16010708)	483150.00	3718150.00	59.99673	(16010708)
483350.00	3718150.00	68.40216	(16021808)	483450.00	3718150.00	88.46499	(16021808)
483550.00	3718150.00	110.33004	(16021808)	483650.00	3718150.00	123.13411	(12122408)

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        484550.00   3718150.00       55.93819  (13112016)              484650.00
3718150.00       45.73803  (13112016)
        485250.00   3718150.00       20.60369  (16123016)              485550.00
3718150.00       15.48977  (16123016)
        485650.00   3718150.00       13.74099  (16123016)              485750.00
3718150.00       12.09209  (16123016)
        481950.00   3718250.00       54.46254  (13012508)              482050.00
3718250.00       52.72598  (13012508)
        482150.00   3718250.00       46.59471  (16021608)              482250.00
3718250.00       45.00214  (16021608)
        482350.00   3718250.00       49.85509  (16010708)              482450.00
3718250.00       63.93469  (16010708)
        482550.00   3718250.00       71.95728  (16010708)              482650.00
3718250.00       61.96462  (16010708)
        482750.00   3718250.00       63.31209  (16010708)              482850.00
3718250.00       90.73324  (16010708)
        482950.00   3718250.00       84.27299  (16010708)              483250.00
3718250.00      120.75809  (13010408)
        484550.00   3718250.00       61.00215  (12113016)              484650.00
3718250.00       44.05303  (12121316)
        484750.00   3718250.00       35.16681  (13112016)              484850.00
3718250.00       29.39182  (13112016)
        485150.00   3718250.00       19.81874  (15121016)              485250.00
3718250.00       16.49022  (15121016)
        485650.00   3718250.00       13.79134  (16123016)              481950.00
3718350.00       39.50829  (16021608)
        482050.00   3718350.00       43.94650  (16010708)              482150.00
3718350.00       47.19341  (16010708)
        482250.00   3718350.00       50.10985  (16010708)              482350.00
3718350.00       65.29447  (16010708)
        482450.00   3718350.00       75.06005  (16010708)              482550.00
3718350.00       76.85015  (16010708)
        482650.00   3718350.00       73.50580  (16010708)              482750.00
3718350.00       69.76079  (16010708)
        483150.00   3718350.00       92.69659  (13010408)              483450.00
3718350.00      130.84744  (12121808)
        485250.00   3718350.00       17.01320  (15121016)              485350.00
3718350.00       15.37596  (15121016)
        485550.00   3718350.00       11.31110  (15121016)              485650.00
3718350.00       10.43847  (16123016)
        486150.00   3718350.00        9.55450  (16123016)              486250.00
3718350.00        9.01678  (16123016)
        481950.00   3718450.00       48.02270  (16010708)              482050.00
3718450.00       56.73633  (16010708)
        482150.00   3718450.00       56.34405  (16010708)              482250.00
3718450.00       55.48374  (16010708)
        482350.00   3718450.00       59.87063  (16010708)              482450.00
3718450.00       66.61745  (16010708)
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482550.00 3718450.00 63.89130 (16010708) 482650.00 3718450.00 64.18988 (13010408)
482750.00 3718450.00 77.60783 (13010408) 482850.00 3718450.00 91.24649 (13010408)
483350.00 3718450.00 112.95781 (13020608) 484450.00 3718450.00 52.24944 (16010616)

*** AERMOD - VERSION 19191 *** *** Curci Vineyard III Construction HRA
*** 04/16/20
*** AERMET - VERSION 16216 *** ***
*** 09:53:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCKS ***
INCLUDING SOURCE(S): L0000075 , L0000076 , L0000077 , L0000078 , L0000079 ,
L0000080 , L0000081 , L0000082 , L0000083 , L0000084 , L0000085 , L0000086 , L0000087 ,
L0000088 , L0000089 , L0000090 , L0000091 , L0000092 , L0000093 , L0000094 , L0000095 ,
L0000096 , L0000097 , L0000098 , L0000099 , L0000100 , L0000101 , L0000102 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
485150.00	3718450.00	17.43516	(13112016)	485250.00	3718450.00	14.76535	(13112016)
485350.00	3718450.00	13.64175	(15121016)	485750.00	3718450.00	9.68275	(15121016)
485850.00	3718450.00	8.24852	(15121016)	485950.00	3718450.00	7.65546	(16123016)
486050.00	3718450.00	7.97052	(16123016)	481950.00	3718550.00	48.61825	(16010708)
482050.00	3718550.00	51.31163	(16010708)	482150.00	3718550.00	52.32693	(16010708)
482250.00	3718550.00	47.45263	(16010708)	482350.00	3718550.00	42.81399	(16010708)
482450.00	3718550.00	53.39704	(13010408)	482550.00			

3718550.00 68.40320 (13010408)
482650.00 3718550.00 79.01752 (13010408) 482750.00
3718550.00 83.97021 (13010408)
482850.00 3718550.00 82.00471 (13010408) 482950.00
3718550.00 84.81155 (14121708)
483550.00 3718550.00 141.91300 (14120208) 484650.00
3718550.00 33.54785 (12121316)
484750.00 3718550.00 32.61069 (12121316) 484850.00
3718550.00 29.77336 (12121316)
485850.00 3718550.00 9.28539 (15121016) 485950.00
3718550.00 8.33982 (15121016)
482050.00 3718650.00 35.70430 (16010708) 482150.00
3718650.00 32.49561 (16010708)
482250.00 3718650.00 41.05067 (13010408) 482350.00
3718650.00 56.23099 (13010408)
482450.00 3718650.00 65.22452 (13010408) 482550.00
3718650.00 71.46393 (13010408)
482650.00 3718650.00 73.09743 (13010408) 482750.00
3718650.00 73.60169 (14121708)
482850.00 3718650.00 87.72881 (14121708) 482950.00
3718650.00 90.08408 (14121708)
485150.00 3718650.00 18.16199 (12121316) 485450.00
3718650.00 11.26600 (13112016)
485550.00 3718650.00 10.15055 (13112016) 485650.00
3718650.00 9.02363 (12012408)
485850.00 3718650.00 8.69703 (15121016) 485950.00
3718650.00 8.40044 (15121016)
486050.00 3718650.00 7.91510 (15121016) 482050.00
3718750.00 30.26768 (13010408)
482150.00 3718750.00 41.41836 (13010408) 482250.00
3718750.00 50.11392 (13010408)
482350.00 3718750.00 58.55741 (13010408) 482450.00
3718750.00 61.86368 (13010408)
482550.00 3718750.00 58.40450 (13010408) 482650.00
3718750.00 67.77905 (14121708)
482750.00 3718750.00 78.88489 (14121708) 482850.00
3718750.00 78.69556 (14121708)
482950.00 3718750.00 70.71378 (12121808) 483050.00
3718750.00 73.31397 (13020608)
484950.00 3718750.00 22.91201 (12121316) 485050.00
3718750.00 21.64469 (12121316)
485150.00 3718750.00 19.69692 (12121316) 485850.00
3718750.00 8.32028 (12012408)
485950.00 3718750.00 7.76645 (12012408) 486050.00
3718750.00 7.34472 (12012408)
482350.00 3718850.00 49.15289 (13010408) 482450.00
3718850.00 49.93313 (14121708)
482550.00 3718850.00 61.88415 (14121708) 482650.00

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3718850.00       67.23979  (14121708)
        482750.00   3718850.00       65.32388  (14121708)               482850.00
3718850.00       63.78072  (12121808)
        482950.00   3718850.00       64.24344  (13020608)               483050.00
3718850.00       62.85964  (12010608)
        483150.00   3718850.00       80.70412  (12010608)               484150.00
3718850.00       74.06970  (13010108)
        484250.00   3718850.00       28.62578  (13010108)               485350.00
3718850.00       14.84613  (12121316)
        485450.00   3718850.00       12.68622  (12121316)               485750.00
3718850.00        7.93667  (12121316)
        485850.00   3718850.00        7.40199  (12012408)               485950.00
3718850.00        7.38572  (12012408)
        486050.00   3718850.00        6.93136  (12012408)               482450.00
3718950.00       55.77982  (14121708)
        482550.00   3718950.00       58.49414  (14121708)               482650.00
3718950.00       51.55340  (14121708)
        482750.00   3718950.00       55.43605  (12121808)               482850.00
3718950.00       57.25414  (13020608)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 667
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  TRUCKS   ***
                                  INCLUDING SOURCE(S):     L0000075    , L0000076
, L0000077    , L0000078    , L0000079    ,
                  L0000080    , L0000081    , L0000082    , L0000083    , L0000084
, L0000085    , L0000086    , L0000087    ,
                  L0000088    , L0000089    , L0000090    , L0000091    , L0000092
, L0000093    , L0000094    , L0000095    ,
                  L0000096    , L0000097    , L0000098    , L0000099    , L0000100
, L0000101    , L0000102    ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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        482950.00   3718950.00       51.63146  (13020608)              483050.00
3718950.00       72.93620  (12010608)
        483150.00   3718950.00       80.74887  (12010608)              483250.00
3718950.00       82.82620  (14120208)
        485750.00   3718950.00        9.41751  (12121316)              485850.00
3718950.00        7.88887  (12121316)
        485950.00   3718950.00        6.64024  (13112016)              486050.00
3718950.00        6.52756  (12012408)
        482250.00   3719050.00       45.93007  (14121708)              482350.00
3719050.00       51.19424  (14121708)
        482450.00   3719050.00       50.08845  (14121708)              482550.00
3719050.00       47.65834  (13011008)
        482650.00   3719050.00       49.98009  (12121808)              482850.00
3719050.00       46.05679  (13020608)
        482950.00   3719050.00       61.28180  (12010608)              483050.00
3719050.00       72.33823  (12010608)
        483150.00   3719050.00       74.94571  (14120208)              483250.00
3719050.00       70.99774  (14120208)
        483350.00   3719050.00       80.67926  (16012008)              483450.00
3719050.00       77.17613  (16012008)
        483550.00   3719050.00       82.44921  (12012308)              485250.00
3719050.00       14.82528  (12121316)
        485450.00   3719050.00       13.19210  (12121316)              485550.00
3719050.00       11.96775  (12121316)
        485650.00   3719050.00       11.06480  (12121316)              485750.00
3719050.00       10.07422  (12121316)
        482350.00   3719150.00       44.48448  (14121708)              482650.00
3719150.00       48.00176  (13020608)
        482850.00   3719150.00       52.69219  (12010608)              483050.00
3719150.00       65.67886  (12121408)
        483150.00   3719150.00       68.96237  (14120208)              483250.00
3719150.00       65.15507  (16012008)
        483350.00   3719150.00       77.48370  (16012008)              483450.00
3719150.00       62.57457  (12021308)
        483550.00   3719150.00       73.67866  (12012308)              485250.00
3719150.00       13.98702  (12121316)
        485550.00   3719150.00       12.16799  (12121316)              485650.00
3719150.00       11.43790  (12121316)
        485950.00   3719150.00        8.18932  (12121316)              484550.00
3719250.00       10.13241  (16010616)
        484750.00   3719250.00       15.52336  (16010616)              484850.00
3719250.00       14.38628  (16010616)
        484750.00   3719350.00       13.29959  (16010616)              484850.00
3719350.00       13.57639  (16010616)
        484950.00   3719350.00       11.79807  (16010616)              485050.00
3719350.00       11.83215  (12121416)
        485150.00   3719350.00       12.00268  (12121416)              484250.00
3719450.00       22.24159  (13010108)
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        484350.00   3719450.00        6.79515  (13010108)                484450.00
3719450.00        6.58122  (15122215)
        484550.00   3719450.00        7.06408  (15122215)                484650.00
3719450.00        8.35878  (16010616)
        484750.00   3719450.00       11.06135  (16010616)                484850.00
3719450.00       12.28805  (16010616)
        484950.00   3719450.00       11.64913  (16010616)                485050.00
3719450.00       10.52135  (12121416)
        485150.00   3719450.00       10.92598  (12121416)                485250.00
3719450.00       11.02963  (12121416)
        485350.00   3719450.00       10.76725  (12121416)                485450.00
3719450.00       10.18167  (12121316)
        485550.00   3719450.00       10.47692  (12121316)                484250.00
3719550.00       31.52099  (13010108)
        484350.00   3719550.00       14.20966  (13010108)                484450.00
3719550.00        6.33496  (13031809)
        484550.00   3719550.00        6.41783  (15122215)                484650.00
3719550.00        6.30752  (16010616)
        484750.00   3719550.00        8.96083  (16010616)                484850.00
3719550.00       10.73121  (16010616)
        484950.00   3719550.00       11.01523  (16010616)                485050.00
3719550.00        9.84810  (16010616)
        485150.00   3719550.00        9.78228  (12121416)                485250.00
3719550.00       10.06299  (12121416)
        485350.00   3719550.00       10.20576  (12121416)                485450.00
3719550.00        9.85115  (12121416)
        485550.00   3719550.00        9.48986  (12121316)                484450.00
3719850.00        5.76663  (13031809)
        484550.00   3719850.00        5.51608  (13031809)                484650.00
3719850.00        5.07059  (15122215)
        484350.00   3719950.00       14.79901  (13010108)                484450.00
3719950.00       11.31296  (13010108)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***       09:53:15

                                    PAGE 668
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  TRUCKS   ***
                                    INCLUDING SOURCE(S):     L0000075    , L0000076
, L0000077    , L0000078    , L0000079    ,
                L0000080    , L0000081    , L0000082    , L0000083    , L0000084
, L0000085    , L0000086    , L0000087    ,
                L0000088    , L0000089    , L0000090    , L0000091    , L0000092
, L0000093    , L0000094    , L0000095    ,
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L0000096 , L0000097 , L0000098 , L0000099 , L0000100 , L0000101 , L0000102 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
484550.00	3719950.00	7.23672	(13010108)	484650.00	3719950.00	4.96038	(13031809)
483837.50	3717212.50	48.45770	(12020608)	483862.50	3717212.50	52.23402	(12020608)
483887.50	3717212.50	58.79838	(12020608)	483412.50	3717237.50	22.17867	(14112608)
483812.50	3717237.50	55.48847	(12012316)	483837.50	3717237.50	51.25807	(12012316)
483862.50	3717237.50	53.52540	(12020608)	483887.50	3717237.50	60.56228	(12020608)
483912.50	3717237.50	66.09048	(12020608)	483937.50	3717237.50	70.04443	(12020608)
483412.50	3717262.50	22.97359	(12122016)	483437.50	3717262.50	23.97675	(14112516)
483462.50	3717262.50	25.43825	(14112516)	483812.50	3717262.50	61.90604	(12012316)
483837.50	3717262.50	58.13660	(12012316)	483862.50	3717262.50	54.15680	(12020608)
483887.50	3717262.50	62.30715	(12020608)	483912.50	3717262.50	68.01628	(12020608)
483937.50	3717262.50	72.56699	(12020608)	483962.50	3717262.50	77.67072	(12020608)
483987.50	3717262.50	79.91820	(12020608)	483412.50	3717287.50	24.40186	(12122016)
483437.50	3717287.50	24.88346	(12122016)	483462.50	3717287.50	26.07096	(14112516)
483487.50	3717287.50	27.72554	(14112516)	483812.50	3717287.50	68.82891	(12012316)
483837.50	3717287.50	65.85661	(12012316)	483862.50	3717287.50	60.04355	(12012316)
483887.50	3717287.50	64.53188	(12020608)	483912.50	3717287.50	71.82277	(12020608)
483937.50	3717287.50	77.60061	(12020608)	483962.50	3717287.50	82.61595	(12020608)
483987.50	3717287.50	86.86387	(12110208)	484012.50			

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3717287.50      101.50855  (12110208)
        483412.50   3717312.50       25.34827  (12122016)                483437.50
3717312.50       26.34995  (12122016)
        483462.50   3717312.50       26.98942  (12122016)                483487.50
3717312.50       28.38690  (14112516)
        483512.50   3717312.50       30.27722  (14112516)                483787.50
3717312.50       74.62209  (12012316)
        483812.50   3717312.50       76.31004  (12012316)                483837.50
3717312.50       74.56703  (12012316)
        483862.50   3717312.50       69.29249  (12012316)                483887.50
3717312.50       69.32665  (12020608)
        483912.50   3717312.50       77.42418  (12020608)                483937.50
3717312.50       83.81253  (12020608)
        483962.50   3717312.50       89.07793  (12020608)                483987.50
3717312.50       96.33939  (12110208)
        484012.50   3717312.50      112.82316  (12110208)                484037.50
3717312.50      121.76169  (12110208)
        484562.50   3717312.50       78.25196  (12122516)                484587.50
3717312.50       72.40935  (12122516)
        484612.50   3717312.50       66.44842  (12122516)                484637.50
3717312.50       60.48976  (12122516)
        484662.50   3717312.50       54.64753  (12122516)                484687.50
3717312.50       49.02211  (12122516)
        484712.50   3717312.50       43.70783  (12122516)                484737.50
3717312.50       38.76091  (12122516)
        484762.50   3717312.50       34.18164  (12122516)                483412.50
3717337.50       25.71789  (12122016)
        483437.50   3717337.50       27.25608  (12122016)                483462.50
3717337.50       28.48346  (12122016)
        483487.50   3717337.50       29.35089  (12122016)                483512.50
3717337.50       31.00003  (14112516)
        483537.50   3717337.50       33.24552  (14112516)                483787.50
3717337.50       80.33731  (12012316)
        483812.50   3717337.50       84.19430  (12012316)                483837.50
3717337.50       84.21365  (12012316)
        483862.50   3717337.50       79.95763  (12012316)                483887.50
3717337.50       75.70618  (12020608)
        483912.50   3717337.50       84.90696  (12020608)                483937.50
3717337.50       90.71699  (12020608)
        483962.50   3717337.50       96.29844  (12020608)                483987.50
3717337.50      107.43385  (12110208)
        484012.50   3717337.50      126.07940  (12110208)                484037.50
3717337.50      135.53349  (12110208)
        484562.50   3717337.50       77.81986  (12122516)                484587.50
3717337.50       71.09561  (12122516)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCKS ***
INCLUDING SOURCE(S): L0000075 , L0000076 , L0000077 , L0000078 , L0000079 , L0000080 , L0000081 , L0000082 , L0000083 , L0000084 , L0000085 , L0000086 , L0000087 , L0000088 , L0000089 , L0000090 , L0000091 , L0000092 , L0000093 , L0000094 , L0000095 , L0000096 , L0000097 , L0000098 , L0000099 , L0000100 , L0000101 , L0000102 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
484612.50	3717337.50	64.46367	(12122516)	484637.50	3717337.50	58.01674	(12122516)
484662.50	3717337.50	51.83317	(12122516)	484687.50	3717337.50	46.00517	(12122516)
484712.50	3717337.50	40.59054	(12122516)	484737.50	3717337.50	35.62630	(12122516)
484762.50	3717337.50	32.65168	(15112616)	483412.50	3717362.50	25.99776	(14112608)
483437.50	3717362.50	27.46009	(12122016)	483462.50	3717362.50	29.30806	(12122016)
483487.50	3717362.50	30.87627	(12122016)	483512.50	3717362.50	32.04937	(12122016)
483537.50	3717362.50	34.05669	(14112516)	483787.50	3717362.50	85.74075	(12012316)
483812.50	3717362.50	92.34626	(12012316)	483837.50	3717362.50	94.81745	(12012316)
483862.50	3717362.50	92.23233	(12012316)	483887.50	3717362.50	84.44072	(12012316)
483912.50	3717362.50	93.43653	(12020608)	483937.50	3717362.50	100.07203	(12020608)
483962.50	3717362.50	103.77966	(12020608)	483987.50	3717362.50	120.46380	(12110208)

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        484012.50   3717362.50      141.69488  (12110208)              484037.50
3717362.50      151.52329  (12110208)
        484562.50   3717362.50       76.27325  (12122516)              484587.50
3717362.50       68.79657  (12122516)
        484612.50   3717362.50       61.61696  (12122516)              484637.50
3717362.50       54.81036  (12122516)
        484662.50   3717362.50       48.42727  (12122516)              484687.50
3717362.50       42.51564  (12122516)
        484712.50   3717362.50       37.12159  (12122516)              484737.50
3717362.50       35.44111  (15112616)
        484762.50   3717362.50       34.74159  (15112616)              484787.50
3717362.50       33.67998  (15112616)
        483412.50   3717387.50       26.76759  (14112608)              483437.50
3717387.50       28.08412  (14112608)
        483462.50   3717387.50       29.49178  (14112608)              483487.50
3717387.50       31.61694  (12122016)
        483512.50   3717387.50       33.58712  (12122016)              483537.50
3717387.50       35.22607  (12122016)
        483562.50   3717387.50       37.54231  (14112516)              483787.50
3717387.50       90.49987  (12012316)
        483812.50   3717387.50      100.54340  (12012316)              483837.50
3717387.50      106.39524  (12012316)
        483862.50   3717387.50      106.41106  (12012316)              483887.50
3717387.50       99.82690  (12012316)
        483912.50   3717387.50      100.73541  (12020608)              483937.50
3717387.50      107.90381  (12020608)
        483962.50   3717387.50      112.34675  (12020608)              483987.50
3717387.50      135.80756  (12110208)
        484012.50   3717387.50      160.05827  (12110208)              484037.50
3717387.50      170.07076  (12110208)
        484062.50   3717387.50      164.17102  (12110208)              484562.50
3717387.50       73.59796  (12122516)
        484587.50   3717387.50       65.55010  (12122516)              484612.50
3717387.50       57.98355  (12122516)
        484637.50   3717387.50       50.97656  (12122516)              484662.50
3717387.50       44.53496  (12122516)
        484687.50   3717387.50       39.24937  (15112616)              484712.50
3717387.50       38.39078  (15112616)
        484737.50   3717387.50       37.45183  (15112616)              484762.50
3717387.50       36.35458  (15112616)
        484787.50   3717387.50       35.04311  (15112616)              483412.50
3717412.50       27.60496  (14112608)
        483437.50   3717412.50       29.03736  (14112608)              483462.50
3717412.50       30.58687  (14112608)
        483487.50   3717412.50       32.22508  (14112608)              483512.50
3717412.50       34.23980  (12122016)
        483537.50   3717412.50       36.71420  (12122016)              483562.50
3717412.50       38.79584  (12122016)
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        483787.50   3717412.50       94.19995  (12012316)                483812.50
3717412.50      108.18147  (12012316)
        483837.50   3717412.50      118.42933  (12012316)                483862.50
3717412.50      122.55774  (12012316)
        483887.50   3717412.50      118.67606  (12012316)                483912.50
3717412.50      106.61062  (12012316)
        483937.50   3717412.50      114.38355  (12020608)                483962.50
3717412.50      121.27100  (12020608)
        483987.50   3717412.50      153.90487  (12110208)                484012.50
3717412.50      181.65546  (12110208)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  TRUCKS   ***
                               INCLUDING SOURCE(S):     L0000075    , L0000076
, L0000077    , L0000078    , L0000079    ,
                  L0000080    , L0000081    , L0000082    , L0000083    , L0000084
, L0000085    , L0000086    , L0000087    ,
                  L0000088    , L0000089    , L0000090    , L0000091    , L0000092
, L0000093    , L0000094    , L0000095    ,
                  L0000096    , L0000097    , L0000098    , L0000099    , L0000100
, L0000101    , L0000102    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
        484037.50   3717412.50      191.49124  (12110208)                484062.50
3717412.50      181.78871  (12110208)
        484487.50   3717412.50       98.38737  (12122516)                484512.50
3717412.50       88.53307  (12122516)
        484537.50   3717412.50       78.98349  (12122516)                484562.50
3717412.50       69.91151  (12122516)
        484587.50   3717412.50       61.44388  (12122516)                484612.50
3717412.50       53.66206  (12122516)
        484637.50   3717412.50       46.62670  (12122516)                484662.50
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3717412.50 42.93749 (15112616)
484687.50 3717412.50 41.85057 (15112616) 484712.50
3717412.50 40.61042 (15112616)
484737.50 3717412.50 39.18241 (15112616) 484762.50
3717412.50 37.75552 (15112616)
484787.50 3717412.50 36.27210 (15112616) 483412.50
3717437.50 28.50367 (14112608)
483437.50 3717437.50 30.04714 (14112608) 483462.50
3717437.50 31.72146 (14112608)
483487.50 3717437.50 33.49983 (14112608) 483512.50
3717437.50 35.40516 (14112608)
483537.50 3717437.50 37.46485 (14112608) 483562.50
3717437.50 40.15623 (12122016)
483587.50 3717437.50 42.73686 (12122016) 483837.50
3717437.50 129.81842 (12012316)
483862.50 3717437.50 139.08667 (12012316) 483887.50
3717437.50 139.52234 (12012316)
483912.50 3717437.50 129.67836 (12012316) 483937.50
3717437.50 120.78879 (12020608)
483962.50 3717437.50 131.07835 (12020608) 483987.50
3717437.50 175.33911 (12110208)
484012.50 3717437.50 207.14516 (12110208) 484037.50
3717437.50 216.22004 (12110208)
484062.50 3717437.50 201.63058 (12110208) 484487.50
3717437.50 95.70445 (12122516)
484512.50 3717437.50 84.91810 (12122516) 484537.50
3717437.50 74.74910 (12122516)
484562.50 3717437.50 65.30637 (12122516) 484587.50
3717437.50 56.64934 (12122516)
484612.50 3717437.50 48.80689 (12122516) 484637.50
3717437.50 46.98902 (15112616)
484662.50 3717437.50 45.54063 (15112616) 484687.50
3717437.50 44.02549 (15112616)
484712.50 3717437.50 42.33361 (15112616) 484737.50
3717437.50 40.62420 (15112616)
484762.50 3717437.50 38.95761 (15112616) 483412.50
3717462.50 29.39738 (14112608)
483437.50 3717462.50 31.04384 (14112608) 483462.50
3717462.50 32.82197 (14112608)
483487.50 3717462.50 34.75017 (14112608) 483512.50
3717462.50 36.82155 (14112608)
483537.50 3717462.50 39.08233 (14112608) 483562.50
3717462.50 41.50339 (14112608)
483587.50 3717462.50 44.09610 (14112608) 483887.50
3717462.50 164.74736 (12012316)
483912.50 3717462.50 158.55797 (12012316) 483937.50
3717462.50 137.90212 (12012316)
483962.50 3717462.50 147.44812 (12110208) 483987.50

3717462.50 202.66906 (12110208)
484012.50 3717462.50 239.82819 (12110208) 484037.50
3717462.50 246.78577 (12110208)
484062.50 3717462.50 224.35883 (12110208) 484487.50
3717462.50 91.46305 (12122516)
484512.50 3717462.50 80.02147 (12122516) 484537.50
3717462.50 69.50278 (12122516)
484562.50 3717462.50 59.94847 (12122516) 484587.50
3717462.50 52.02024 (15112616)
484612.50 3717462.50 50.77107 (15112616) 484637.50
3717462.50 49.17110 (15112616)
484662.50 3717462.50 47.50385 (15112616) 484687.50
3717462.50 45.74615 (15112616)
484712.50 3717462.50 43.60515 (15112616) 484737.50
3717462.50 41.70122 (15112616)
484762.50 3717462.50 39.87402 (15112616) 483412.50
3717487.50 31.14660 (14120216)
483437.50 3717487.50 32.25034 (14120216) 483462.50
3717487.50 33.91663 (14112608)
483487.50 3717487.50 35.98420 (14112608) 483512.50
3717487.50 38.23645 (14112608)
483537.50 3717487.50 40.69130 (14112608) 483562.50
3717487.50 43.34026 (14112608)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCKS ***
INCLUDING SOURCE(S): L0000075 , L0000076 , L0000077 , L0000078 , L0000079 ,
L0000080 , L0000081 , L0000082 , L0000083 , L0000084 , L0000085 , L0000086 , L0000087 ,
L0000088 , L0000089 , L0000090 , L0000091 , L0000092 , L0000093 , L0000094 , L0000095 ,
L0000096 , L0000097 , L0000098 , L0000099 , L0000100 , L0000101 , L0000102 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
483587.50	3717487.50	46.19328	(14112608)	483612.50	3717487.50	49.25091	(14112608)
483912.50	3717487.50	194.76350	(12012316)	483937.50	3717487.50	175.49814	(12012316)
483962.50	3717487.50	170.24771	(12110208)	483987.50	3717487.50	239.60472	(12110208)
484012.50	3717487.50	283.55872	(12110208)	484037.50	3717487.50	285.72531	(12110208)
484062.50	3717487.50	251.13566	(12110208)	484537.50	3717487.50	63.43904	(12122516)
484562.50	3717487.50	55.93798	(15112616)	484587.50	3717487.50	54.16632	(15112616)
484612.50	3717487.50	52.65798	(15112616)	484637.50	3717487.50	50.89256	(15112616)
484662.50	3717487.50	48.92415	(15112616)	484687.50	3717487.50	46.97262	(15112616)
484712.50	3717487.50	44.65941	(15112616)	484737.50	3717487.50	42.47750	(15112616)
484762.50	3717487.50	40.47542	(15112616)	483412.50	3717512.50	32.98103	(14120216)
483437.50	3717512.50	34.56222	(14120216)	483462.50	3717512.50	36.15193	(14120216)
483487.50	3717512.50	37.73134	(14120216)	483512.50	3717512.50	39.65458	(14112608)
483537.50	3717512.50	42.29787	(14112608)	483562.50	3717512.50	45.21258	(14112608)
483587.50	3717512.50	48.38655	(14112608)	483612.50	3717512.50	51.79135	(14112608)
483912.50	3717512.50	239.07179	(12012316)	483937.50	3717512.50	225.85363	(12012316)
483962.50	3717512.50	200.23277	(12110208)	483987.50	3717512.50	288.71649	(12110208)
484012.50	3717512.50	341.08889	(12110208)	484037.50	3717512.50	335.32764	(12110208)
484062.50	3717512.50	283.05442	(12110208)	484537.50	3717512.50	60.56736	(15112616)
484562.50	3717512.50	58.18965	(15112616)	484587.50	3717512.50	55.96066	(15112616)
484612.50	3717512.50	53.97067	(15112616)	484637.50	3717512.50	51.98579	(15112616)
484662.50	3717512.50	49.85549	(15112616)	484687.50	3717512.50	47.66121	(15112616)
484712.50	3717512.50	45.37960	(15112616)	484737.50	3717512.50	42.96061	(15112616)

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        484762.50   3717512.50       40.80190  (15112616)                483412.50
3717537.50       34.01861  (14120216)
        483437.50   3717537.50       36.00887  (14120216)                483462.50
3717537.50       38.11291  (14120216)
        483487.50   3717537.50       40.35024  (14120216)                483512.50
3717537.50       42.63849  (14120216)
        483537.50   3717537.50       44.92641  (14120216)                483562.50
3717537.50       47.19796  (14120216)
        483587.50   3717537.50       50.56545  (14112608)                483612.50
3717537.50       54.38852  (14112608)
        483637.50   3717537.50       58.61240  (14112608)                483937.50
3717537.50      293.59230  (12012316)
        483962.50   3717537.50      253.02616  (12012316)                483987.50
3717537.50      356.27634  (12110208)
        484012.50   3717537.50      418.91869  (12110208)                484037.50
3717537.50      397.33223  (12110208)
        484062.50   3717537.50      318.45258  (12110208)                483412.50
3717562.50       34.18314  (14120216)
        483437.50   3717562.50       36.56643  (14120216)                483462.50
3717562.50       39.12602  (14120216)
        483487.50   3717562.50       41.89576  (14120216)                483512.50
3717562.50       44.85432  (14120216)
        483537.50   3717562.50       47.98402  (14120216)                483562.50
3717562.50       51.25105  (14120216)
        483587.50   3717562.50       54.64890  (14120216)                483612.50
3717562.50       58.16293  (14120216)
        483637.50   3717562.50       61.74869  (14120216)                483937.50
3717562.50      383.83209  (12012316)
        483962.50   3717562.50      353.45103  (12012316)                483987.50
3717562.50      453.60412  (12110208)
        484012.50   3717562.50      529.94723  (12110208)                484037.50
3717562.50      475.49689  (12110208)
        484062.50   3717562.50      356.54990  (12110208)                483412.50
3717587.50       33.44767  (14120216)
        483437.50   3717587.50       36.14044  (14120216)                483462.50
3717587.50       39.05868  (14120216)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                         ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 672
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  TRUCKS   ***
                                  INCLUDING SOURCE(S):     L0000075    , L0000076
, L0000077    , L0000078    , L0000079    ,
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L0000080 , L0000081 , L0000082 , L0000083 , L0000084
, L0000085 , L0000086 , L0000087 ,
L0000088 , L0000089 , L0000090 , L0000091 , L0000092
, L0000093 , L0000094 , L0000095 ,
L0000096 , L0000097 , L0000098 , L0000099 , L0000100
, L0000101 , L0000102 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
483487.50	3717587.50	42.25851	(14120216)	483512.50	3717587.50	45.73334	(14120216)
483537.50	3717587.50	49.53686	(14120216)	483562.50	3717587.50	53.67583	(14120216)
483587.50	3717587.50	58.17282	(14120216)	483612.50	3717587.50	63.05949	(14120216)
483637.50	3717587.50	68.29298	(14120216)	484512.50	3717612.50	68.10384	(15112616)
484537.50	3717612.50	63.69509	(15112616)	484562.50	3717612.50	59.99923	(15112616)
484587.50	3717612.50	56.35731	(15112616)	484612.50	3717612.50	52.98921	(15112616)
484637.50	3717612.50	49.98978	(15112616)	484662.50	3717612.50	48.04459	(15122816)
484687.50	3717612.50	46.31584	(15122816)	484712.50	3717612.50	44.57594	(15122816)
484737.50	3717612.50	42.59518	(15122816)	484762.50	3717612.50	40.69851	(15122816)
484787.50	3717612.50	38.98180	(15122816)	484812.50	3717612.50	37.34073	(15122816)
484837.50	3717612.50	35.25947	(15122816)	484862.50	3717612.50	33.74333	(15122816)
484512.50	3717637.50	67.62181	(15112616)	484537.50	3717637.50	62.62960	(15112616)
484562.50	3717637.50	58.80210	(15122816)	484587.50	3717637.50	56.34883	(15122816)
484612.50	3717637.50	54.03747	(15122816)	484637.50	3717637.50	51.75765	(15122816)
484662.50	3717637.50	49.77135	(15122816)	484687.50	3717637.50	47.77768	(15122816)
484712.50	3717637.50	45.81967	(15122816)	484737.50			

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3717637.50       43.71118  (15122816)
        484762.50   3717637.50       41.66335  (15122816)                484787.50
3717637.50       39.94504  (15122816)
        484812.50   3717637.50       38.36640  (15122816)                484837.50
3717637.50       36.66441  (15122816)
        484862.50   3717637.50       34.93175  (15122816)                484512.50
3717662.50       68.16148  (15122816)
        484537.50   3717662.50       64.42822  (15122816)                484562.50
3717662.50       61.04706  (15122816)
        484587.50   3717662.50       58.21466  (15122816)                484612.50
3717662.50       55.61384  (15122816)
        484637.50   3717662.50       53.06788  (15122816)                484662.50
3717662.50       50.75285  (15122816)
        484687.50   3717662.50       48.79926  (15122816)                484712.50
3717662.50       46.85780  (15122816)
        484737.50   3717662.50       44.92166  (15122816)                484762.50
3717662.50       42.84015  (15122816)
        484787.50   3717662.50       41.80985  (15122816)                484812.50
3717662.50       40.14082  (15122816)
        484837.50   3717662.50       37.81103  (15122816)                484862.50
3717662.50       35.74353  (15122816)
        484512.50   3717687.50       70.76259  (15122816)                484537.50
3717687.50       66.32894  (15122816)
        484562.50   3717687.50       62.76877  (15122816)                484587.50
3717687.50       59.44178  (15122816)
        484612.50   3717687.50       56.45383  (15122816)                484637.50
3717687.50       53.73116  (15122816)
        484662.50   3717687.50       51.25915  (15122816)                484687.50
3717687.50       49.23887  (15122816)
        484712.50   3717687.50       47.18587  (15122816)                484737.50
3717687.50       45.31509  (15122816)
        484762.50   3717687.50       43.81139  (15122816)                484787.50
3717687.50       42.48909  (15122816)
        484812.50   3717687.50       40.98541  (15122816)                484837.50
3717687.50       38.97240  (15122816)
        484862.50   3717687.50       36.16680  (15122816)                484512.50
3717712.50       73.10260  (15122816)
        484537.50   3717712.50       67.86441  (15122816)                484562.50
3717712.50       63.48879  (15122816)
        484587.50   3717712.50       59.92186  (15122816)                484612.50
3717712.50       56.78754  (15122816)
        484637.50   3717712.50       53.97625  (15122816)                484662.50
3717712.50       51.34172  (15122816)
        484687.50   3717712.50       49.03334  (15122816)                484712.50
3717712.50       46.84384  (15122816)
        484737.50   3717712.50       44.89534  (15122816)                484762.50
3717712.50       43.13198  (15122816)
        484787.50   3717712.50       41.44358  (15122816)                484812.50
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3717712.50   39.98451 (15122816)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TRUCKS   ***
                                    INCLUDING SOURCE(S):   L0000075   , L0000076
, L0000077   , L0000078   , L0000079   ,
                   L0000080   , L0000081   , L0000082   , L0000083   , L0000084
, L0000085   , L0000086   , L0000087   ,
                   L0000088   , L0000089   , L0000090   , L0000091   , L0000092
, L0000093   , L0000094   , L0000095   ,
                   L0000096   , L0000097   , L0000098   , L0000099   , L0000100
, L0000101   , L0000102   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        484837.50   3717712.50   38.27563 (15122816)   484862.50
3717712.50   36.03911 (15122816)
        484512.50   3717737.50   73.15321 (15122816)   484537.50
3717737.50   68.12166 (15122816)
        484562.50   3717737.50   63.79768 (15122816)   484587.50
3717737.50   60.03133 (15122816)
        484612.50   3717737.50   56.72087 (15122816)   484637.50
3717737.50   53.67230 (15122816)
        484662.50   3717737.50   50.83662 (15122816)   484687.50
3717737.50   48.23639 (15122816)
        484712.50   3717737.50   45.91800 (15122816)   484737.50
3717737.50   43.91167 (15122816)
        484762.50   3717737.50   42.06369 (15122816)   484787.50
3717737.50   40.15410 (15122816)
        484812.50   3717737.50   38.30331 (15122816)   484837.50
3717737.50   36.55844 (15122816)
        484862.50   3717737.50   34.89881 (15122816)   484512.50
3717762.50   72.79645 (15122816)

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        484537.50   3717762.50       67.89394  (15122816)              484562.50
3717762.50       63.47855  (15122816)
        484587.50   3717762.50       59.80902  (15122816)              484612.50
3717762.50       56.21567  (15122816)
        484637.50   3717762.50       52.80303  (15122816)              484662.50
3717762.50       49.86675  (15122816)
        484687.50   3717762.50       47.13385  (15122816)              484712.50
3717762.50       44.77050  (15122816)
        484737.50   3717762.50       42.71690  (15122816)              484762.50
3717762.50       40.91359  (15122816)
        484787.50   3717762.50       38.90820  (15122816)              484812.50
3717762.50       36.76428  (15122816)
        484837.50   3717762.50       34.86541  (15122816)              484862.50
3717762.50       33.20247  (15122816)
        484512.50   3717787.50       71.30974  (15122816)              484537.50
3717787.50       66.58770  (15122816)
        484562.50   3717787.50       62.89597  (15122816)              484587.50
3717787.50       58.87100  (15122816)
        484612.50   3717787.50       54.84977  (15122816)              484637.50
3717787.50       51.36550  (15122816)
        484662.50   3717787.50       48.37232  (15122816)              484687.50
3717787.50       45.75066  (15122816)
        484712.50   3717787.50       43.45809  (15122816)              484737.50
3717787.50       41.54825  (15122816)
        484762.50   3717787.50       39.56907  (15122816)              484787.50
3717787.50       37.56297  (15122816)
        484812.50   3717787.50       35.45334  (15122816)              484837.50
3717787.50       33.33249  (15122816)
        484862.50   3717787.50       31.79627  (15122816)              483412.50
3717812.50       36.20623  (14112608)
        483437.50   3717812.50       38.80301  (14112608)              483462.50
3717812.50       41.70906  (14112608)
        483487.50   3717812.50       44.99416  (14112608)              484512.50
3717812.50       68.78748  (15122816)
        484537.50   3717812.50       64.94372  (15122816)              484562.50
3717812.50       60.97707  (15122816)
        484587.50   3717812.50       56.96735  (15122816)              484612.50
3717812.50       52.80300  (15122816)
        484637.50   3717812.50       49.17138  (15122816)              484662.50
3717812.50       46.30337  (15122816)
        484687.50   3717812.50       43.85062  (15122816)              484712.50
3717812.50       41.72039  (15122816)
        484737.50   3717812.50       39.78138  (15122816)              484762.50
3717812.50       37.92950  (15122816)
        484787.50   3717812.50       35.96480  (15122816)              484812.50
3717812.50       34.03511  (15122816)
        484837.50   3717812.50       32.15066  (15122816)              484862.50
3717812.50       30.65321  (15122816)
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        483412.50   3717837.50       36.07640  (14112608)                483437.50
3717837.50       38.65137  (14112608)
        483462.50   3717837.50       41.53245  (14112608)                483487.50
3717837.50       44.78797  (14112608)
        483512.50   3717837.50       48.47498  (14112608)                484512.50
3717837.50       68.12278  (16123016)
        484537.50   3717837.50       61.89570  (16123016)                484562.50
3717837.50       57.39470  (15122816)
        484587.50   3717837.50       53.80370  (15122816)                484612.50
3717837.50       50.04202  (15122816)
        484637.50   3717837.50       46.61180  (15122816)                484662.50
3717837.50       43.84250  (15122816)
        484687.50   3717837.50       41.57758  (15122816)                484712.50
3717837.50       39.62438  (15122816)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***        09:53:15

                                    PAGE 674
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  TRUCKS   ***
                                    INCLUDING SOURCE(S):     L0000075    , L0000076
, L0000077    , L0000078    , L0000079    ,
                   L0000080    , L0000081    , L0000082    , L0000083    , L0000084
, L0000085    , L0000086    , L0000087    ,
                   L0000088    , L0000089    , L0000090    , L0000091    , L0000092
, L0000093    , L0000094    , L0000095    ,
                   L0000096    , L0000097    , L0000098    , L0000099    , L0000100
, L0000101    , L0000102    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        484737.50   3717837.50       37.71742  (15122816)                484762.50
3717837.50       35.87575  (15122816)
        484787.50   3717837.50       34.11645  (15122816)                484812.50
3717837.50       32.36550  (15122816)
        484837.50   3717837.50       30.77211  (15122816)                484862.50
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3717837.50       29.25105  (15122816)
        483412.50   3717862.50       35.85094  (14112608)              483437.50
3717862.50       38.39574  (14112608)
        483462.50   3717862.50       41.24849  (14112608)              483487.50
3717862.50       44.45352  (14112608)
        483512.50   3717862.50       48.05897  (14112608)              484512.50
3717862.50       76.15341  (16123016)
        484537.50   3717862.50       69.76483  (16123016)              484562.50
3717862.50       63.91163  (16123016)
        484587.50   3717862.50       58.56686  (16123016)              484612.50
3717862.50       53.65927  (16123016)
        484637.50   3717862.50       49.17135  (16123016)              484662.50
3717862.50       45.11120  (16123016)
        484687.50   3717862.50       41.43826  (16123016)              484712.50
3717862.50       38.09201  (16123016)
        484737.50   3717862.50       35.21665  (15122816)              484762.50
3717862.50       33.53002  (15122816)
        484787.50   3717862.50       31.97552  (15122816)              484812.50
3717862.50       30.45815  (15122816)
        484837.50   3717862.50       28.97495  (15122816)              484862.50
3717862.50       27.66569  (15122816)
        483412.50   3717887.50       35.53586  (14112608)              483437.50
3717887.50       38.03656  (14112608)
        483462.50   3717887.50       40.83825  (14112608)              483487.50
3717887.50       43.96815  (14112608)
        483512.50   3717887.50       47.48130  (14112608)              483537.50
3717887.50       51.45061  (14112608)
        484512.50   3717887.50       81.85664  (16123016)              484537.50
3717887.50       75.51057  (16123016)
        484562.50   3717887.50       69.74023  (16123016)              484587.50
3717887.50       64.41951  (16123016)
        484612.50   3717887.50       59.49486  (16123016)              484637.50
3717887.50       54.96413  (16123016)
        484662.50   3717887.50       50.78244  (16123016)              484687.50
3717887.50       46.96700  (16123016)
        484712.50   3717887.50       43.43983  (16123016)              484737.50
3717887.50       40.17802  (16123016)
        484762.50   3717887.50       37.17368  (16123016)              484787.50
3717887.50       34.40389  (16123016)
        484812.50   3717887.50       31.84867  (16123016)              484837.50
3717887.50       29.47919  (16123016)
        484862.50   3717887.50       27.29645  (16123016)              483412.50
3717912.50       35.13167  (14112608)
        483437.50   3717912.50       37.56458  (14112608)              483462.50
3717912.50       40.27966  (14112608)
        483487.50   3717912.50       43.31456  (14112608)              483512.50
3717912.50       46.70905  (14112608)
        483537.50   3717912.50       50.53648  (14112608)              483562.50
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3717912.50       54.87326  (14112608)
        484512.50   3717912.50       84.81793  (16123016)                484537.50
3717912.50       78.86495  (16123016)
        484562.50   3717912.50       73.38816  (16123016)                484587.50
3717912.50       68.30384  (16123016)
        484612.50   3717912.50       63.59738  (16123016)                484637.50
3717912.50       59.18746  (16123016)
        484662.50   3717912.50       55.11740  (16123016)                484687.50
3717912.50       51.31564  (16123016)
        484712.50   3717912.50       47.78469  (16123016)                484737.50
3717912.50       44.49630  (16123016)
        484762.50   3717912.50       41.43200  (16123016)                484787.50
3717912.50       38.57751  (16123016)
        484812.50   3717912.50       35.92271  (16123016)                484837.50
3717912.50       33.45136  (16123016)
        484862.50   3717912.50       31.13732  (16123016)                483412.50
3717937.50       34.64677  (14112608)
        483437.50   3717937.50       37.00308  (14112608)                483462.50
3717937.50       39.61888  (14112608)
        483487.50   3717937.50       42.54292  (14112608)                483512.50
3717937.50       45.80296  (14112608)
        483537.50   3717937.50       49.97540  (16021808)                483562.50
3717937.50       55.86895  (16021808)
        483587.50   3717937.50       62.54174  (16021808)                484512.50
3717937.50       84.79746  (16123016)
        484537.50   3717937.50       79.50480  (16123016)                484562.50
3717937.50       74.55718  (16123016)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***        09:53:15

                                    PAGE 675
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  TRUCKS   ***
                                    INCLUDING SOURCE(S):     L0000075    , L0000076
, L0000077    , L0000078    , L0000079    ,
                  L0000080    , L0000081    , L0000082    , L0000083    , L0000084
, L0000085    , L0000086    , L0000087    ,
                  L0000088    , L0000089    , L0000090    , L0000091    , L0000092
, L0000093    , L0000094    , L0000095    ,
                  L0000096    , L0000097    , L0000098    , L0000099    , L0000100
, L0000101    , L0000102    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***
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** CONC OF PM_10 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
484587.50	3717937.50	69.95886	(16123016)	484612.50	3717937.50	65.62647	(16123016)
484637.50	3717937.50	61.56473	(16123016)	484662.50	3717937.50	57.74884	(16123016)
484687.50	3717937.50	54.17707	(16123016)	484712.50	3717937.50	50.80416	(16123016)
484737.50	3717937.50	47.63228	(16123016)	484762.50	3717937.50	44.65589	(16123016)
484787.50	3717937.50	41.85013	(16123016)	484812.50	3717937.50	39.21244	(16123016)
484837.50	3717937.50	36.73704	(16123016)	484862.50	3717937.50	34.40794	(16123016)
483412.50	3717962.50	34.09046	(14112608)	483437.50	3717962.50	36.36258	(14112608)
483462.50	3717962.50	39.04289	(16021808)	483487.50	3717962.50	43.22664	(16021808)
483512.50	3717962.50	47.97996	(16021808)	483537.50	3717962.50	53.30368	(16021808)
483562.50	3717962.50	59.28178	(16021808)	483587.50	3717962.50	65.86667	(16021808)
483612.50	3717962.50	73.10706	(16021808)	484512.50	3717962.50	81.71336	(16123016)
484537.50	3717962.50	77.29546	(16123016)	484562.50	3717962.50	73.11494	(16123016)
484587.50	3717962.50	69.17767	(16123016)	484612.50	3717962.50	65.42981	(16123016)
484637.50	3717962.50	61.88294	(16123016)	484662.50	3717962.50	58.50285	(16123016)
484687.50	3717962.50	55.30791	(16123016)	484712.50	3717962.50	52.25813	(16123016)
484737.50	3717962.50	49.34233	(16123016)	484762.50	3717962.50	46.58090	(16123016)
484787.50	3717962.50	43.95843	(16123016)	484812.50	3717962.50	41.46523	(16123016)
484837.50	3717962.50	39.09621	(16123016)	484862.50	3717962.50	36.84775	(16123016)
483412.50	3717987.50	34.45472	(16021808)	483437.50	3717987.50	37.90976	(16021808)
483462.50	3717987.50	41.77029	(16021808)	483487.50	3717987.50	46.07934	(16021808)

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        483512.50   3717987.50       50.87710  (16021808)                483537.50
3717987.50       56.21387  (16021808)
        483562.50   3717987.50       62.10969  (16021808)                483587.50
3717987.50       68.56871  (16021808)
        483612.50   3717987.50       75.68707  (16021808)                484512.50
3717987.50       76.58682  (15121016)
        484537.50   3717987.50       72.30982  (16123016)                484562.50
3717987.50       69.09138  (16123016)
        484587.50   3717987.50       65.97601  (16123016)                484612.50
3717987.50       62.98576  (16123016)
        484637.50   3717987.50       60.07384  (16123016)                484662.50
3717987.50       57.29055  (16123016)
        484687.50   3717987.50       54.57571  (16123016)                484712.50
3717987.50       51.99369  (16123016)
        484737.50   3717987.50       49.49203  (16123016)                484762.50
3717987.50       47.06990  (16123016)
        484787.50   3717987.50       44.74266  (16123016)                484812.50
3717987.50       42.50351  (16123016)
        484837.50   3717987.50       40.35396  (16123016)                484862.50
3717987.50       38.29121  (16123016)
        483412.50   3718012.50       36.75645  (16021808)                483437.50
3718012.50       40.31378  (16021808)
        483462.50   3718012.50       44.24729  (16021808)                483487.50
3718012.50       48.60524  (16021808)
        483512.50   3718012.50       53.41323  (16021808)                483537.50
3718012.50       58.69683  (16021808)
        483562.50   3718012.50       64.47067  (16021808)                483587.50
3718012.50       70.78530  (16021808)
        483612.50   3718012.50       77.70928  (16021808)                483637.50
3718012.50       84.70204  (16021808)
        484512.50   3718012.50       77.58199  (15121016)                484537.50
3718012.50       72.08697  (15121016)
        484562.50   3718012.50       66.78577  (15121016)                484587.50
3718012.50       61.70599  (15121016)
        484612.50   3718012.50       58.39607  (16123016)                484637.50
3718012.50       56.23963  (16123016)
        484662.50   3718012.50       54.13360  (16123016)                484687.50
3718012.50       52.06817  (16123016)
        484712.50   3718012.50       50.03914  (16123016)                484737.50
3718012.50       48.03636  (16123016)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                          ***        09:53:15

                                   PAGE 676
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCKS ***

INCLUDING SOURCE(S): L0000075 , L0000076 , L0000077 , L0000078 , L0000079 , L0000080 , L0000081 , L0000082 , L0000083 , L0000084 , L0000085 , L0000086 , L0000087 , L0000088 , L0000089 , L0000090 , L0000091 , L0000092 , L0000093 , L0000094 , L0000095 , L0000096 , L0000097 , L0000098 , L0000099 , L0000100 , L0000101 , L0000102 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
484762.50	3718012.50	46.06620	(16123016)	484787.50	3718012.50	44.13417	(16123016)
484812.50	3718012.50	42.25049	(16123016)	484837.50	3718012.50	40.40899	(16123016)
484862.50	3718012.50	38.61996	(16123016)	483412.50	3718037.50	38.86462	(16021808)
483437.50	3718037.50	42.46310	(16021808)	483462.50	3718037.50	46.40375	(16021808)
483487.50	3718037.50	50.73121	(16021808)	483512.50	3718037.50	55.44721	(16021808)
483537.50	3718037.50	60.57337	(16021808)	483562.50	3718037.50	66.09262	(16021808)
483587.50	3718037.50	72.06093	(16021808)	483612.50	3718037.50	78.44283	(16021808)
483637.50	3718037.50	85.19513	(14120316)	483662.50	3718037.50	101.43191	(14120316)
484512.50	3718037.50	75.81847	(15121016)	484537.50	3718037.50	71.46099	(15121016)
484562.50	3718037.50	67.11235	(15121016)	484587.50	3718037.50	62.81527	(15121016)
484612.50	3718037.50	58.60187	(15121016)	484637.50	3718037.50	54.51965	(15121016)
484662.50	3718037.50	50.58169	(15121016)	484687.50	3718037.50	47.94235	(16123016)
484712.50	3718037.50	46.51278	(16123016)	484737.50	3718037.50	45.08836	(16123016)
484762.50	3718037.50	43.62819	(16123016)	484787.50			

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3718037.50       42.17198  (16123016)
        484812.50   3718037.50       40.70672  (16123016)                484837.50
3718037.50       39.24639  (16123016)
        484862.50   3718037.50       37.79583  (16123016)                483412.50
3718062.50       48.72334  (16021808)
        483437.50   3718062.50       52.77636  (16021808)                483462.50
3718062.50       51.14381  (16021808)
        483487.50   3718062.50       52.38608  (16021808)                483512.50
3718062.50       56.93439  (16021808)
        483537.50   3718062.50       61.79869  (16021808)                483562.50
3718062.50       66.96183  (16021808)
        483587.50   3718062.50       72.40990  (16021808)                483612.50
3718062.50       78.13457  (16021808)
        483637.50   3718062.50       91.88742  (14120316)                483662.50
3718062.50      106.95584  (14120316)
        484512.50   3718062.50       71.36550  (15121016)                484537.50
3718062.50       68.34870  (15121016)
        484562.50   3718062.50       65.15529  (15121016)                484587.50
3718062.50       61.83728  (15121016)
        484612.50   3718062.50       58.46733  (15121016)                484637.50
3718062.50       55.06781  (15121016)
        484662.50   3718062.50       51.71127  (15121016)                484687.50
3718062.50       48.42386  (15121016)
        483412.50   3718087.50       60.14289  (16021808)                483437.50
3718087.50       63.55869  (16021808)
        483462.50   3718087.50       66.66850  (16021808)                483487.50
3718087.50       66.09204  (16021808)
        483512.50   3718087.50       57.81385  (16021808)                483537.50
3718087.50       62.34796  (16021808)
        483562.50   3718087.50       67.05314  (16021808)                483587.50
3718087.50       71.91369  (16021808)
        483612.50   3718087.50       83.66099  (14120316)                483637.50
3718087.50       96.79479  (14120316)
        483662.50   3718087.50      110.51584  (14120316)                484512.50
3718087.50       66.37571  (13112016)
        484537.50   3718087.50       62.98988  (15121016)                484562.50
3718087.50       61.05787  (15121016)
        484587.50   3718087.50       58.86150  (15121016)                484612.50
3718087.50       56.46506  (15121016)
        484637.50   3718087.50       53.91821  (15121016)                484662.50
3718087.50       51.27277  (15121016)
        484687.50   3718087.50       48.59649  (15121016)                483412.50
3718112.50       77.27370  (16021808)
        483437.50   3718112.50       82.55747  (16021808)                483462.50
3718112.50       74.85155  (16021808)
        483487.50   3718112.50       74.85881  (16021808)                483512.50
3718112.50       74.55849  (16021808)
        483537.50   3718112.50       66.13030  (16021808)                483562.50
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3718112.50   66.33052 (16021808)
        483587.50   3718112.50   76.52594 (14120316)   483612.50
3718112.50   88.13507 (14120316)
        483637.50   3718112.50   100.11507 (14120316)   483662.50
3718112.50   112.17094 (14120316)
 *** AERMOD - VERSION 19191 ***   *** Curci Vineyard III Construction HRA
                          ***   04/16/20
 *** AERMET - VERSION 16216 ***   ***
                         ***   09:53:15

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TRUCKS   ***
                                    INCLUDING SOURCE(S):   L0000075   , L0000076
, L0000077   , L0000078   , L0000079   ,
                   L0000080   , L0000081   , L0000082   , L0000083   , L0000084
, L0000085   , L0000086   , L0000087   ,
                   L0000088   , L0000089   , L0000090   , L0000091   , L0000092
, L0000093   , L0000094   , L0000095   ,
                   L0000096   , L0000097   , L0000098   , L0000099   , L0000100
, L0000101   , L0000102   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10   IN MICROGRAMS/M**3
                    **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        483687.50   3718112.50   123.72932 (14120316)   484512.50
3718112.50   64.58443 (13112016)
        484537.50   3718112.50   61.18183 (13112016)   484562.50
3718112.50   57.52653 (13112016)
        484587.50   3718112.50   54.11424 (15121016)   484612.50
3718112.50   52.74476 (15121016)
        484637.50   3718112.50   51.11465 (15121016)   484662.50
3718112.50   49.29771 (15121016)
        484687.50   3718112.50   47.33734 (15121016)   483412.50
3718137.50   84.19070 (16021808)
        483437.50   3718137.50   89.28044 (16021808)   483462.50
3718137.50   84.80744 (16021808)
        483487.50   3718137.50   83.25692 (16021808)   483512.50
3718137.50   87.03462 (16021808)

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        483537.50   3718137.50       93.55748  (16021808)              483562.50
3718137.50       98.43016  (16021808)
        483587.50   3718137.50      101.65640  (16021808)              483612.50
3718137.50      103.03342  (16021808)
        483637.50   3718137.50      112.52181  (16021808)              483662.50
3718137.50      117.24523  (12122408)
        483687.50   3718137.50      130.30140  (12122408)              484512.50
3718137.50       62.32596  (12121316)
        484537.50   3718137.50       58.70889  (13112016)              484562.50
3718137.50       56.22000  (13112016)
        484587.50   3718137.50       53.39994  (13112016)              484612.50
3718137.50       50.32309  (13112016)
        484637.50   3718137.50       47.09821  (13112016)              484662.50
3718137.50       45.95782  (15121016)
        484687.50   3718137.50       44.76519  (15121016)              483412.50
3718162.50       86.39496  (16021808)
        483437.50   3718162.50       92.75873  (16021808)              483462.50
3718162.50       97.35664  (16021808)
        483487.50   3718162.50       99.66550  (16021808)              483512.50
3718162.50      102.85637  (16021808)
        483537.50   3718162.50      108.04690  (16021808)              483562.50
3718162.50      121.56225  (16021808)
        483587.50   3718162.50      131.27380  (16021808)              483612.50
3718162.50      136.89093  (16021808)
        483637.50   3718162.50      134.22658  (16021808)              483662.50
3718162.50      141.70569  (12122408)
        483687.50   3718162.50      149.34822  (12122408)              484512.50
3718162.50       63.34161  (12121316)
        484537.50   3718162.50       58.43295  (12121316)              484562.50
3718162.50       53.62790  (12121316)
        484587.50   3718162.50       51.51232  (13112016)              484612.50
3718162.50       49.38427  (13112016)
        484637.50   3718162.50       46.97839  (13112016)              484662.50
3718162.50       44.38408  (13112016)
        484687.50   3718162.50       41.67747  (13112016)              484712.50
3718162.50       40.39231  (15121016)
        484737.50   3718162.50       39.51135  (15121016)              484762.50
3718162.50       38.45717  (15121016)
        484787.50   3718162.50       37.26093  (15121016)              484812.50
3718162.50       35.95652  (15121016)
        484837.50   3718162.50       34.55981  (15121016)              484862.50
3718162.50       33.09442  (15121016)
        483412.50   3718187.50       96.25284  (16021808)              483437.50
3718187.50      105.71939  (16021808)
        483462.50   3718187.50      109.42110  (16021808)              483487.50
3718187.50      108.53688  (16021808)
        483512.50   3718187.50      112.38282  (16021808)              483537.50
3718187.50      111.55356  (16021808)
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        483562.50   3718187.50      124.26808  (16021808)                484512.50
3718187.50       66.64456  (12113016)
        484537.50   3718187.50       59.15425  (12121316)                484562.50
3718187.50       54.85039  (12121316)
        484587.50   3718187.50       50.69900  (12121316)                484612.50
3718187.50       47.10453  (13112016)
        484637.50   3718187.50       45.57383  (13112016)                484662.50
3718187.50       43.73773  (13112016)
        484687.50   3718187.50       41.68453  (13112016)                484712.50
3718187.50       39.46944  (13112016)
        484737.50   3718187.50       37.14191  (13112016)                484762.50
3718187.50       35.74443  (15121016)
        484787.50   3718187.50       35.08306  (15121016)                484812.50
3718187.50       34.26648  (15121016)
        484837.50   3718187.50       33.31838  (15121016)                484862.50
3718187.50       32.27557  (15121016)
        484162.50   3718212.50      155.57209  (16010616)                484187.50
3718212.50      170.80639  (16010616)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***        09:53:15

                                    PAGE 678
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  TRUCKS   ***
                                    INCLUDING SOURCE(S):     L0000075    , L0000076
, L0000077    , L0000078    , L0000079    ,
                   L0000080    , L0000081    , L0000082    , L0000083    , L0000084
, L0000085    , L0000086    , L0000087    ,
                   L0000088    , L0000089    , L0000090    , L0000091    , L0000092
, L0000093    , L0000094    , L0000095    ,
                   L0000096    , L0000097    , L0000098    , L0000099    , L0000100
, L0000101    , L0000102    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
        484212.50   3718212.50      172.51453  (16010616)                484512.50
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3718212.50       68.45956  (12113016)
        484537.50   3718212.50       62.00797  (12113016)                484562.50
3718212.50       55.56048  (12121316)
        484587.50   3718212.50       51.65820  (12121316)                484612.50
3718212.50       47.88437  (12121316)
        484637.50   3718212.50       44.21819  (12121316)                484662.50
3718212.50       41.96089  (13112016)
        484687.50   3718212.50       40.61643  (13112016)                484712.50
3718212.50       39.02226  (13112016)
        484737.50   3718212.50       37.23960  (13112016)                484762.50
3718212.50       35.31409  (13112016)
        484787.50   3718212.50       33.29203  (13112016)                484812.50
3718212.50       31.81582  (15121016)
        484837.50   3718212.50       31.33291  (15121016)                484862.50
3718212.50       30.70735  (15121016)
        484512.50   3718237.50       68.42396  (12113016)                484537.50
3718237.50       63.35687  (12113016)
        484562.50   3718237.50       57.79556  (12113016)                484587.50
3718237.50       52.20723  (12121316)
        484612.50   3718237.50       48.75905  (12121316)                484637.50
3718237.50       45.27904  (12121316)
        484662.50   3718237.50       42.01845  (12121316)                484687.50
3718237.50       38.92879  (12121316)
        484712.50   3718237.50       37.62667  (13112016)                484737.50
3718237.50       36.43168  (13112016)
        484762.50   3718237.50       35.02164  (13112016)                484787.50
3718237.50       33.45233  (13112016)
        484812.50   3718237.50       31.77137  (13112016)                484837.50
3718237.50       30.02424  (13112016)
        484862.50   3718237.50       28.49192  (15121016)                483412.50
3718262.50      114.07045  (13011008)
        483437.50   3718262.50      121.96544  (13011008)                484137.50
3718262.50       83.20500  (16010616)
        484162.50   3718262.50      107.13021  (16010616)                484212.50
3718262.50      136.29821  (16010616)
        484512.50   3718262.50       66.59522  (12113016)                484537.50
3718262.50       63.07365  (12113016)
        484562.50   3718262.50       58.76645  (12113016)                484587.50
3718262.50       53.95226  (12113016)
        484612.50   3718262.50       49.14169  (12121316)                484637.50
3718262.50       45.99411  (12121316)
        484662.50   3718262.50       42.90797  (12121316)                484687.50
3718262.50       39.87814  (12121316)
        484712.50   3718262.50       37.14695  (12121316)                484737.50
3718262.50       34.79260  (13112016)
        484762.50   3718262.50       33.93126  (13112016)                484787.50
3718262.50       32.84754  (13112016)
        484812.50   3718262.50       31.60565  (13112016)                484837.50
```

3718262.50 30.22801 (13112016)
484862.50 3718262.50 28.74816 (13112016) 483412.50
3718287.50 116.82086 (13011008)
483437.50 3718287.50 125.85935 (13011008) 484212.50
3718287.50 119.84489 (16010616)
484512.50 3718287.50 63.18945 (12113016) 484537.50
3718287.50 61.23531 (12113016)
484562.50 3718287.50 58.29269 (12113016) 484587.50
3718287.50 54.61600 (12113016)
484612.50 3718287.50 50.43831 (12113016) 484637.50
3718287.50 46.29531 (12121316)
484662.50 3718287.50 43.46429 (12121316) 484687.50
3718287.50 40.55662 (12121316)
484712.50 3718287.50 37.90950 (12121316) 484737.50
3718287.50 35.43641 (12121316)
484762.50 3718287.50 33.05907 (12121316) 484787.50
3718287.50 31.53402 (13112016)
484812.50 3718287.50 30.73902 (13112016) 484837.50
3718287.50 29.77161 (13112016)
484862.50 3718287.50 28.66033 (13112016) 483412.50
3718312.50 126.27299 (12121808)
483437.50 3718312.50 135.36584 (12121808) 484187.50
3718312.50 90.86781 (16010616)
483412.50 3718337.50 130.10838 (12121808) 483437.50
3718337.50 134.61355 (12121808)
484187.50 3718337.50 76.82660 (16010616) 483412.50
3718412.50 126.32440 (13020608)
483437.50 3718412.50 125.83639 (13020608) 483412.50
3718437.50 119.84595 (13020608)
483437.50 3718437.50 124.40223 (12010608) 484462.50
3718462.50 49.18331 (16010616)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCKS ***
INCLUDING SOURCE(S): L0000075 , L0000076 , L0000077 , L0000078 , L0000079 ,
L0000080 , L0000081 , L0000082 , L0000083 , L0000084 , L0000085 , L0000086 , L0000087 ,
L0000088 , L0000089 , L0000090 , L0000091 , L0000092 , L0000093 , L0000094 , L0000095 ,
L0000096 , L0000097 , L0000098 , L0000099 , L0000100

, L0000101   , L0000102   , . . .   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10   IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
484487.50	3718462.50	42.68575	(12121416)	484462.50	3718487.50	49.66737	(16010616)
484487.50	3718487.50	43.68955	(16010616)				

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10   IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
481950.00	3715450.00	46.35572	(12010408)	482050.00	3715450.00	47.45703	(13122408)
482150.00	3715450.00	47.49727	(13122408)	482250.00			

3715450.00 49.56896 (14011708)
482350.00 3715450.00 50.64860 (14011708) 482450.00
3715450.00 50.72937 (15122508)
482550.00 3715450.00 51.24069 (15122508) 482650.00
3715450.00 52.51235 (14010808)
482750.00 3715450.00 54.28771 (14010108) 482850.00
3715450.00 54.99932 (14010108)
482950.00 3715450.00 54.23925 (15121608) 483050.00
3715450.00 57.41110 (14123008)
483150.00 3715450.00 58.71940 (14123008) 483250.00
3715450.00 59.79374 (13020508)
483350.00 3715450.00 60.64106 (13020508) 483450.00
3715450.00 61.98619 (14010208)
483550.00 3715450.00 62.82254 (16122908) 483650.00
3715450.00 62.28899 (16122908)
483750.00 3715450.00 63.85298 (16010408) 483850.00
3715450.00 64.29319 (16010408)
483950.00 3715450.00 64.31379 (15011408) 484050.00
3715450.00 63.71976 (13011608)
484150.00 3715450.00 64.28093 (13122708) 484250.00
3715450.00 64.28937 (16122808)
484350.00 3715450.00 65.28009 (15011308) 484450.00
3715450.00 64.32526 (15011308)
481950.00 3715550.00 48.07954 (12010408) 482050.00
3715550.00 48.87109 (12010408)
482150.00 3715550.00 49.63784 (13122408) 482250.00
3715550.00 50.77720 (14011708)
482350.00 3715550.00 52.07409 (14011708) 482550.00
3715550.00 53.89826 (15122508)
482650.00 3715550.00 54.62886 (14010808) 482750.00
3715550.00 56.17908 (14010108)
482850.00 3715550.00 57.55615 (14010108) 482950.00
3715550.00 57.35108 (14010108)
483050.00 3715550.00 59.42367 (14123008) 483150.00
3715550.00 61.81839 (14123008)
483250.00 3715550.00 62.50363 (14012308) 483350.00
3715550.00 64.01299 (13020508)
483450.00 3715550.00 64.85938 (14010208) 483550.00
3715550.00 65.89370 (16122908)
483650.00 3715550.00 66.23351 (16122908) 483750.00
3715550.00 67.03083 (16010408)
483850.00 3715550.00 68.14596 (16010408) 483950.00
3715550.00 68.12481 (15011408)
484050.00 3715550.00 67.69955 (13011608) 484250.00
3715550.00 68.12502 (16122808)
484350.00 3715550.00 67.99003 (15011308) 484450.00
3715550.00 67.14245 (13122608)
484550.00 3715550.00 69.92932 (13122608) 484950.00

3715550.00 187.59263 (15012908)
485050.00 3715550.00 186.69869 (13010908) 481950.00
3715650.00 49.37221 (12010408)
482050.00 3715650.00 50.95441 (12010408) 482150.00
3715650.00 51.82143 (13122408)
482250.00 3715650.00 52.98551 (13122408) 482350.00
3715650.00 53.61737 (14011708)
482450.00 3715650.00 55.45312 (14011708) 482650.00
3715650.00 57.42880 (15122508)
482750.00 3715650.00 58.94133 (14010808) 482850.00
3715650.00 60.60582 (14010108)
482950.00 3715650.00 60.79318 (14010108) 483050.00
3715650.00 60.60452 (15121608)
483150.00 3715650.00 64.57175 (14123008) 483250.00
3715650.00 65.82749 (14123008)
483350.00 3715650.00 67.81757 (13020508) 483450.00
3715650.00 68.06537 (14010208)
483550.00 3715650.00 69.93476 (14010208) 483650.00
3715650.00 70.03617 (16122908)
483750.00 3715650.00 71.07956 (16010408) 483850.00
3715650.00 71.42204 (16010408)
483950.00 3715650.00 72.14511 (15011408) 484050.00
3715650.00 70.80806 (13122708)
484150.00 3715650.00 71.61576 (13122708) 484350.00
3715650.00 72.74290 (15011308)
484450.00 3715650.00 70.95633 (13122608) 484550.00
3715650.00 72.37954 (13122608)
484650.00 3715650.00 71.83857 (13123008) 484750.00
3715650.00 74.86680 (14012108)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
484950.00	3715650.00	82.70319	(15012908)	485050.00	3715650.00	80.71108	(15012908)
481950.00	3715750.00	50.65629	(13012308)	482050.00	3715750.00	52.36482	(12010408)
482150.00	3715750.00	53.47712	(12010408)	482250.00	3715750.00	54.21773	(13122408)
482350.00	3715750.00	56.21386	(13122408)	482450.00	3715750.00	57.85275	(14011708)
482550.00	3715750.00	59.74635	(14011708)	482750.00	3715750.00	61.00397	(15122508)
482850.00	3715750.00	64.02589	(14010108)	482950.00	3715750.00	64.95232	(14010108)
483050.00	3715750.00	64.64607	(14010108)	483150.00	3715750.00	67.74784	(14123008)
483250.00	3715750.00	69.67815	(14123008)	483350.00	3715750.00	71.43987	(13020508)
483450.00	3715750.00	71.67419	(13020508)	483550.00	3715750.00	74.16755	(14010208)
483650.00	3715750.00	74.55759	(16122908)	483750.00	3715750.00	74.79061	(16010408)
483850.00	3715750.00	76.14297	(16010408)	483950.00	3715750.00	76.00169	(15011408)
484050.00	3715750.00	75.80947	(13122708)	484150.00	3715750.00	76.05631	(13122708)
484250.00	3715750.00	75.37286	(15010508)	484550.00	3715750.00	74.92162	(13122608)
484650.00	3715750.00	74.10176	(13123008)	484750.00	3715750.00	75.37715	(14012108)
484850.00	3715750.00	74.97894	(15012908)	484950.00	3715750.00	75.65901	(15012908)
485050.00	3715750.00	73.98642	(13010908)	481950.00	3715850.00	52.45210	(13121608)
482050.00	3715850.00	54.23679	(13012308)	482150.00	3715850.00	55.05937	(12010408)
482250.00	3715850.00	57.42490	(12010408)	482350.00	3715850.00	58.58114	(13122408)
482450.00	3715850.00	60.56690	(13122408)	482550.00	3715850.00	62.43628	(14011708)

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        482650.00   3715850.00       63.72672  (14011708)                482750.00
3715850.00       65.55505  (15122508)
        482850.00   3715850.00       66.80799  (14010808)                482950.00
3715850.00       68.91686  (14010108)
        483050.00   3715850.00       69.24720  (14010108)                483150.00
3715850.00       70.14023  (14123008)
        483350.00   3715850.00       74.82713  (14012308)                483450.00
3715850.00       76.61022  (13020508)
        483550.00   3715850.00       78.46781  (14010208)                483650.00
3715850.00       79.41696  (16122908)
        483750.00   3715850.00       79.71925  (16010408)                483850.00
3715850.00       81.60867  (16010408)
        483950.00   3715850.00       80.68971  (15011408)                484050.00
3715850.00       80.87078  (13122708)
        484150.00   3715850.00       81.10041  (16122808)                484250.00
3715850.00       80.42296  (15010508)
        484550.00   3715850.00       79.54679  (13122608)                484650.00
3715850.00       78.40720  (14012108)
        484750.00   3715850.00       78.06735  (14012108)                484850.00
3715850.00       78.22762  (15012908)
        485150.00   3715850.00       75.71602  (14010908)                485250.00
3715850.00       80.99202  (14122508)
        481950.00   3715950.00       54.51887  (13121608)                482050.00
3715950.00       55.27367  (13121608)
        482150.00   3715950.00       57.21390  (13012308)                482250.00
3715950.00       59.94081  (12010408)
        482350.00   3715950.00       61.63536  (12010408)                482450.00
3715950.00       63.18887  (13122408)
        482550.00   3715950.00       65.05881  (13122408)                482650.00
3715950.00       67.21159  (14011708)
        482750.00   3715950.00       68.03437  (15122508)                482850.00
3715950.00       70.00831  (15122508)
        482950.00   3715950.00       72.55582  (14010808)                483050.00
3715950.00       74.96467  (14010108)
        483350.00   3715950.00       79.33220  (14123008)                483450.00
3715950.00       82.06828  (13020508)
        483550.00   3715950.00       82.88310  (14010208)                483650.00
3715950.00       84.50607  (16122908)
        483750.00   3715950.00       83.85275  (16122908)                483850.00
3715950.00       87.56538  (16010408)
        483950.00   3715950.00       85.89114  (15011408)                484050.00
3715950.00       86.02224  (13122708)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***       09:53:15
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL   ***
INCLUDING SOURCE(S):   L0000001   , L0000002 , L0000003   , L0000004   , L0000005   ,
L0000006   , L0000007   , L0000008   , L0000009   , L0000010 , L0000011   , L0000012   , L0000013   ,
L0000014   , L0000015   , L0000016   , L0000017   , L0000018 , L0000019   , L0000020   , L0000021   ,
L0000022   , L0000023   , L0000024   , L0000025   , L0000026 , L0000027   , L0000028   , . . .   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10   IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
484150.00	3715950.00	87.23716	(16122808)	484250.00	3715950.00	86.32582	(15011308)
484850.00	3715950.00	82.28382	(15012908)	485150.00	3715950.00	80.18855	(14122508)
485250.00	3715950.00	87.78214	(15010808)	481950.00	3716050.00	55.58562	(13121608)
482050.00	3716050.00	57.79591	(13121608)	482150.00	3716050.00	59.63864	(13121608)
482250.00	3716050.00	61.91371	(13012308)	482350.00	3716050.00	64.17567	(12010408)
482450.00	3716050.00	66.11317	(12010408)	482550.00	3716050.00	68.56694	(13122408)
482650.00	3716050.00	70.35415	(14011708)	482750.00	3716050.00	72.24507	(14011708)
482850.00	3716050.00	74.53566	(15122508)	482950.00	3716050.00	75.91219	(14010808)
483050.00	3716050.00	78.91550	(14010108)	483150.00	3716050.00	79.64526	(14010108)
483350.00	3716050.00	84.58786	(14123008)	483450.00	3716050.00	87.05679	(13020508)
483550.00	3716050.00	87.85199	(14010208)	483650.00	3716050.00	89.73127	(14010208)
483750.00	3716050.00	90.90759	(16122908)	483850.00	3716050.00	93.46037	(16010408)
483950.00	3716050.00	92.61652	(15011408)	484050.00			

3716050.00 91.62205 (13122708)
484150.00 3716050.00 93.70316 (16122808) 484250.00
3716050.00 92.56780 (15011308)
484450.00 3716050.00 90.68664 (13122608) 484750.00
3716050.00 88.00555 (15012908)
484850.00 3716050.00 86.10220 (15012908) 485050.00
3716050.00 82.86351 (14122508)
485150.00 3716050.00 83.42439 (14122508) 485250.00
3716050.00 88.38241 (15010808)
485350.00 3716050.00 80.71164 (13020708) 485450.00
3716050.00 84.66225 (14012408)
481950.00 3716150.00 55.63128 (13121608) 482050.00
3716150.00 59.48395 (13121608)
482150.00 3716150.00 62.44112 (13121608) 482250.00
3716150.00 64.53018 (13121608)
482350.00 3716150.00 66.90929 (13012308) 482450.00
3716150.00 69.42654 (12010408)
482550.00 3716150.00 71.33645 (12010408) 482650.00
3716150.00 74.15539 (13122408)
482750.00 3716150.00 76.46170 (14011708) 482850.00
3716150.00 78.34619 (14011708)
482950.00 3716150.00 80.94797 (15122508) 483050.00
3716150.00 83.22827 (14010808)
483150.00 3716150.00 85.51309 (14010108) 483450.00
3716150.00 91.99208 (14012308)
483550.00 3716150.00 94.49172 (13020508) 483650.00
3716150.00 96.51477 (14010208)
483750.00 3716150.00 98.11400 (16122908) 483850.00
3716150.00 100.06920 (16010408)
483950.00 3716150.00 99.86970 (15011408) 484150.00
3716150.00 100.58886 (16122808)
484250.00 3716150.00 99.79006 (15011308) 484350.00
3716150.00 98.10675 (13122608)
484450.00 3716150.00 97.39474 (13122608) 484850.00
3716150.00 90.00937 (13010908)
484950.00 3716150.00 87.66027 (14010908) 485150.00
3716150.00 86.09878 (15010808)
485250.00 3716150.00 83.21465 (13020708) 485350.00
3716150.00 82.49741 (12122508)
485450.00 3716150.00 86.17704 (14012408) 481950.00
3716250.00 55.10107 (14120908)
482050.00 3716250.00 59.77040 (13121608) 482150.00
3716250.00 64.41524 (13121608)
482250.00 3716250.00 67.76371 (13121608) 482350.00
3716250.00 69.79889 (13121608)
482450.00 3716250.00 72.22062 (13012308) 482550.00
3716250.00 75.33630 (12010408)
482650.00 3716250.00 77.37049 (12010408) 482750.00

3716250.00   80.51209 (13122408)
        482850.00   3716250.00   83.86528 (14011708)   482950.00
3716250.00   85.65450 (15122508)
        483050.00   3716250.00   87.72506 (15122508)   483150.00
3716250.00   91.19261 (14010108)
        483450.00   3716250.00   98.18278 (14123008)   483550.00
3716250.00   101.61506 (13020508)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                   INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                   L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                   L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                   L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10   IN MICROGRAMS/M**3
                   **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        483650.00   3716250.00   104.02798 (14010208)   483750.00
3716250.00   105.88134 (16122908)
        483850.00   3716250.00   107.49483 (16010408)   483950.00
3716250.00   107.07458 (15011408)
        484150.00   3716250.00   111.15167 (16122808)   484850.00
3716250.00   95.90931 (13010908)
        484950.00   3716250.00   96.31547 (14122508)   485050.00
3716250.00   91.29629 (15010808)
        485150.00   3716250.00   88.63227 (13020708)   485250.00
3716250.00   85.84060 (12122508)
        485350.00   3716250.00   89.23558 (14012408)   481950.00
3716350.00   60.24804 (14120908)

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        482050.00   3716350.00       61.41849  (14120908)              482150.00
3716350.00       64.76848  (13121608)
        482250.00   3716350.00       71.20837  (13121608)              482350.00
3716350.00       73.97433  (13121608)
        482450.00   3716350.00       76.05993  (13121608)              482550.00
3716350.00       78.68955  (13012308)
        482650.00   3716350.00       82.33538  (12010408)              482750.00
3716350.00       84.98012  (13122408)
        482850.00   3716350.00       87.94603  (13122408)              482950.00
3716350.00       92.07320  (14011708)
        483050.00   3716350.00       94.35628  (15122508)              483150.00
3716350.00       96.87970  (14010808)
        483450.00   3716350.00      105.81886  (14123008)              483550.00
3716350.00      109.03557  (13020508)
        483650.00   3716350.00      111.58058  (14010208)              483750.00
3716350.00      114.69518  (16122908)
        483850.00   3716350.00      116.08197  (16010408)              483950.00
3716350.00      115.97873  (15011408)
        484850.00   3716350.00      102.27163  (14010908)              484950.00
3716350.00      105.34104  (14122508)
        481950.00   3716450.00       65.04966  (14120908)              482550.00
3716450.00       83.85117  (13121608)
        482650.00   3716450.00       86.80198  (13012308)              482750.00
3716450.00       90.75491  (12010408)
        482850.00   3716450.00       92.82181  (13122408)              482950.00
3716450.00       97.72042  (14011708)
        483050.00   3716450.00      102.39922  (14011708)              483150.00
3716450.00      104.66118  (15122508)
        483450.00   3716450.00      113.72919  (14123008)              483550.00
3716450.00      116.87187  (14012308)
        483650.00   3716450.00      119.83953  (13020508)              483750.00
3716450.00      123.87685  (16122908)
        483850.00   3716450.00      125.51591  (16010408)              483950.00
3716450.00      126.07956  (15011408)
        484050.00   3716450.00      125.75349  (13122708)              485150.00
3716450.00      103.95932  (14012408)
        482650.00   3716550.00       95.06307  (13121608)              482750.00
3716550.00       96.67007  (13012308)
        482850.00   3716550.00       99.49040  (12010408)              482950.00
3716550.00      107.10114  (13122408)
        483450.00   3716550.00      120.81048  (14123008)              483550.00
3716550.00      128.36494  (14123008)
        483650.00   3716550.00      131.50562  (13020508)              483750.00
3716550.00      136.13865  (14010208)
        483850.00   3716550.00      136.77617  (16010408)              483950.00
3716550.00      139.14908  (16010408)
        484050.00   3716550.00      138.21531  (13122708)              484950.00
3716550.00      110.69300  (13020708)
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        485050.00   3716550.00      113.84754  (14012408)                485150.00
3716550.00      122.41898  (14012408)
        482850.00   3716650.00      105.73548  (13012308)                482950.00
3716650.00      113.79884  (12010408)
        483450.00   3716650.00      132.16244  (14010108)                483550.00
3716650.00      139.03125  (14123008)
        483650.00   3716650.00      145.35125  (13020508)                483750.00
3716650.00      151.79119  (14010208)
        483850.00   3716650.00      151.18898  (16122908)                483950.00
3716650.00      154.80004  (16010408)
        484050.00   3716650.00      153.49098  (13122708)                485250.00
3716650.00      109.35299  (15123108)
        481950.00   3716750.00       69.26539  (12120608)                482650.00
3716750.00      107.50698  (13121608)
        482750.00   3716750.00      116.17757  (13121608)                482850.00
3716750.00      114.40731  (13121608)
        482950.00   3716750.00      123.45729  (13012308)                483050.00
3716750.00      129.42896  (12010408)
        483150.00   3716750.00      139.73443  (13122408)                483450.00
3716750.00      146.60246  (14010108)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                   PAGE 684
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                   INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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- -

483550.00 3716750.00 151.21762 (14123008) 483650.00 3716750.00 168.11925 (14012308)
483750.00 3716750.00 174.93123 (14010208) 483850.00 3716750.00 170.02289 (16122908)
483950.00 3716750.00 172.60836 (16010408) 484050.00 3716750.00 170.93403 (13122708)
485150.00 3716750.00 117.23736 (15123108) 485250.00 3716750.00 108.78466 (15123108)
485350.00 3716750.00 99.08387 (16121208) 485450.00 3716750.00 102.23067 (16121208)
485550.00 3716750.00 107.89020 (16121208) 485650.00 3716750.00 97.82471 (16121208)
481950.00 3716850.00 70.23091 (12011608) 482050.00 3716850.00 73.73638 (12120608)
482150.00 3716850.00 79.24071 (12120608) 482650.00 3716850.00 117.30562 (14120908)
482750.00 3716850.00 118.35368 (13121608) 482850.00 3716850.00 125.90274 (13121608)
482950.00 3716850.00 139.03196 (13121608) 483050.00 3716850.00 153.98730 (13012308)
483150.00 3716850.00 153.72697 (12010408) 483250.00 3716850.00 150.87713 (14011708)
484050.00 3716850.00 206.91098 (12020608) 485550.00 3716850.00 111.04623 (16121208)
485650.00 3716850.00 101.52763 (14011608) 481950.00 3716950.00 75.59439 (12011608)
482050.00 3716950.00 77.57444 (12011608) 482150.00 3716950.00 80.27388 (12011608)
482250.00 3716950.00 85.60527 (12120608) 482350.00 3716950.00 93.38903 (12120608)
482450.00 3716950.00 101.17810 (12120608) 483150.00 3716950.00 166.43016 (13012308)
483250.00 3716950.00 166.91492 (12010408) 485550.00 3716950.00 109.95214 (14011608)
485650.00 3716950.00 101.01796 (14011608) 481950.00 3717050.00 78.16151 (12011608)
482050.00 3717050.00 82.18282 (12011608) 482150.00 3717050.00 87.07098 (12011608)
482250.00 3717050.00 91.98538 (12011608) 482350.00 3717050.00 94.80059 (12011608)
482450.00 3717050.00 101.29329 (12120608) 482550.00 3717050.00 110.09898 (12120608)
482650.00 3717050.00 118.97871 (12120608) 482850.00 3717050.00 136.90885 (14120908)
482950.00 3717050.00 156.59717 (14120908) 483250.00 3717050.00 206.84812 (13012308)
485350.00 3717050.00 126.12314 (14011608) 485450.00

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3717050.00      121.43176  (14011608)
        485550.00   3717050.00      110.75417  (14013008)                485650.00
3717050.00      103.60859  (14013008)
        486250.00   3717050.00      205.16270  (13013008)                481950.00
3717150.00       75.73026  (12011608)
        482050.00   3717150.00       83.69800  (12011608)                482150.00
3717150.00       92.06129  (12011608)
        482250.00   3717150.00       95.75723  (12011608)                482350.00
3717150.00      101.83346  (12011608)
        482450.00   3717150.00      108.75471  (12011608)                482550.00
3717150.00      110.47860  (12011608)
        482650.00   3717150.00      121.80295  (12120608)                482750.00
3717150.00      134.56811  (12120608)
        482850.00   3717150.00      142.99506  (12120608)                482950.00
3717150.00      154.33290  (12123108)
        483050.00   3717150.00      179.01261  (14120908)                485350.00
3717150.00      129.56825  (14013008)
        485450.00   3717150.00      121.78296  (14013008)                485550.00
3717150.00      109.54833  (14013008)
        485650.00   3717150.00      103.18707  (14012908)                481950.00
3717250.00       79.75597  (15122308)
        482050.00   3717250.00       82.51450  (15122308)                482150.00
3717250.00       87.14201  (12011608)
        482250.00   3717250.00       99.57478  (12011608)                482350.00
3717250.00      109.01320  (12011608)
        482450.00   3717250.00      113.03925  (12011608)                482550.00
3717250.00      120.49589  (12011608)
        482650.00   3717250.00      129.40148  (12011608)                482750.00
3717250.00      139.65935  (12011608)
        482850.00   3717250.00      149.83972  (12120608)                482950.00
3717250.00      161.17506  (12120608)
        483050.00   3717250.00      178.24808  (12120608)                483150.00
3717250.00      201.80055  (14120908)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***       04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***       09:53:15

                                   PAGE 685
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                   INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
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, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
483250.00	3717250.00	225.06709	(13121608)	483350.00	3717250.00	262.51109	(13121608)
483450.00	3717250.00	264.57116	(12010408)	483850.00	3717250.00	345.29505	(12021708)
483950.00	3717250.00	418.59914	(12020608)	486150.00	3717250.00	84.51915	(12121008)
486250.00	3717250.00	81.88911	(12121008)	481950.00	3717350.00	85.48438	(15122308)
482050.00	3717350.00	89.27690	(15122308)	482150.00	3717350.00	93.33072	(15122308)
482250.00	3717350.00	100.33992	(15122308)	482350.00	3717350.00	106.56789	(15122308)
482450.00	3717350.00	112.93908	(12011608)	482550.00	3717350.00	122.18429	(12011608)
482650.00	3717350.00	136.34075	(12011608)	482750.00	3717350.00	152.31292	(12011608)
482850.00	3717350.00	161.52941	(12011608)	482950.00	3717350.00	165.30156	(12011608)
483050.00	3717350.00	184.64831	(12120608)	483150.00	3717350.00	209.31370	(12120608)
483250.00	3717350.00	229.01922	(14120908)	483350.00	3717350.00	248.39661	(14120908)
483450.00	3717350.00	276.25441	(13121608)	483850.00	3717350.00	448.25464	(12021708)
483950.00	3717350.00	512.08805	(12020608)	484050.00	3717350.00	563.17451	(12020608)
484650.00	3717350.00	294.76326	(16121908)	484750.00	3717350.00	258.25866	(13010208)
486050.00	3717350.00	83.34875	(12121008)	486150.00	3717350.00	79.77825	(12121008)
486250.00	3717350.00	76.08876	(12121008)	481950.00	3717450.00	87.71635	(15122308)
482050.00	3717450.00	93.19909	(15122308)	482150.00	3717450.00	97.23070	(15122308)

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        482250.00   3717450.00      107.21905  (15122308)                482350.00
3717450.00      113.10436  (15122308)
        482450.00   3717450.00      120.77758  (15122308)                482750.00
3717450.00      155.37440  (12011608)
        482850.00   3717450.00      169.01888  (12011608)                482950.00
3717450.00      180.15643  (12011608)
        483050.00   3717450.00      195.71481  (12011608)                483150.00
3717450.00      212.10274  (12011608)
        483250.00   3717450.00      241.48295  (12120608)                483350.00
3717450.00      272.69473  (12120608)
        483450.00   3717450.00      297.67680  (14120908)                483550.00
3717450.00      336.84880  (13121608)
        483850.00   3717450.00      494.93522  (12021708)                483950.00
3717450.00      617.37004  (12020608)
        484050.00   3717450.00      664.11433  (12020608)                484550.00
3717450.00      381.75009  (16121908)
        484650.00   3717450.00      356.71532  (13010208)                484750.00
3717450.00      284.53768  (14011608)
        481950.00   3717550.00       86.29303  (15122308)                482050.00
3717550.00       93.35209  (15122308)
        482150.00   3717550.00      100.85075  (15122308)                482250.00
3717550.00      107.22855  (15122308)
        482350.00   3717550.00      116.59650  (15122308)                482450.00
3717550.00      126.38797  (15122308)
        482750.00   3717550.00      167.30961  (15122308)                482850.00
3717550.00      176.40859  (15122308)
        482950.00   3717550.00      181.57282  (15122308)                483050.00
3717550.00      196.61311  (12011608)
        483250.00   3717550.00      258.75049  (12011608)                483350.00
3717550.00      285.76819  (12011608)
        483450.00   3717550.00      353.59133  (12120608)                483550.00
3717550.00      380.19239  (14120908)
        483950.00   3717550.00      920.68311  (12020608)                484050.00
3717550.00     1008.49535  (12020608)
        485850.00   3717550.00       95.67063  (14011008)                485950.00
3717550.00       90.52969  (14011008)
        481950.00   3717650.00      170.08797  (12020108)                482050.00
3717650.00      107.76769  (12020108)
        482150.00   3717650.00      109.90986  (12020108)                482250.00
3717650.00      111.81396  (12020108)
        482350.00   3717650.00      119.10494  (12020108)                482450.00
3717650.00      125.64172  (12020108)
        482550.00   3717650.00      135.73727  (12020108)                482650.00
3717650.00      147.55819  (15122308)
        482750.00   3717650.00      165.50990  (15122308)                482850.00
3717650.00      178.74458  (15122308)
♠ *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***       04/16/20
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*** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL   ***
INCLUDING SOURCE(S):   L0000001   , L0000002 , L0000003   , L0000004   , L0000005   ,
L0000006   , L0000007   , L0000008   , L0000009   , L0000010 , L0000011   , L0000012   , L0000013   ,
L0000014   , L0000015   , L0000016   , L0000017   , L0000018 , L0000019   , L0000020   , L0000021   ,
L0000022   , L0000023   , L0000024   , L0000025   , L0000026 , L0000027   , L0000028   , . . .   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10   IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
482950.00	3717650.00	194.90943	(15122308)	483350.00	3717650.00	301.63986	(12011608)
484550.00	3717650.00	451.21361	(15112616)	484650.00	3717650.00	371.92889	(13010708)
484750.00	3717650.00	318.55638	(13010708)	484850.00	3717650.00	264.70756	(13010708)
485150.00	3717650.00	182.46539	(14011008)	485450.00	3717650.00	129.41852	(14011008)
485550.00	3717650.00	120.46449	(12010508)	482250.00	3717750.00	126.93983	(12020108)
482350.00	3717750.00	194.13518	(15121408)	482450.00	3717750.00	226.50801	(12020108)
482550.00	3717750.00	204.80141	(15121408)	482650.00	3717750.00	185.84631	(12020108)
482750.00	3717750.00	175.24833	(12020108)	482850.00	3717750.00	184.48769	(12020108)
482950.00	3717750.00	202.16076	(12020108)	484550.00	3717750.00	468.53984	(15122816)
484650.00	3717750.00	387.29752	(15122816)	484750.00	3717750.00	328.51548	(15122816)
484850.00	3717750.00	275.12499	(15122816)	485150.00			

3717750.00 184.25130 (12010508)
485450.00 3717750.00 130.45593 (12010508) 485550.00
3717750.00 120.80078 (12010508)
485650.00 3717750.00 112.49584 (12010508) 485750.00
3717750.00 103.23222 (12010508)
485850.00 3717750.00 95.49753 (12010508) 485950.00
3717750.00 89.16431 (12010508)
486050.00 3717750.00 83.71268 (12010508) 482250.00
3717850.00 216.42759 (15121408)
482650.00 3717850.00 299.10043 (15121408) 482750.00
3717850.00 219.39375 (15121408)
482850.00 3717850.00 190.19232 (12020108) 482950.00
3717850.00 222.79905 (12020108)
483350.00 3717850.00 339.84314 (12020108) 483450.00
3717850.00 393.47965 (12020108)
484550.00 3717850.00 503.67729 (15122816) 484650.00
3717850.00 381.60941 (15122816)
484750.00 3717850.00 314.68564 (16112816) 484850.00
3717850.00 262.76755 (16112816)
484950.00 3717850.00 224.64329 (12010508) 485150.00
3717850.00 171.66603 (12010508)
485250.00 3717850.00 151.69891 (12010508) 485450.00
3717850.00 123.98294 (12010508)
485550.00 3717850.00 113.98244 (12010508) 485650.00
3717850.00 104.67370 (12010508)
485750.00 3717850.00 95.35812 (12010508) 485850.00
3717850.00 89.04364 (12010508)
485950.00 3717850.00 83.99554 (12010508) 486050.00
3717850.00 77.66546 (12010508)
481950.00 3717950.00 185.23290 (15010208) 482250.00
3717950.00 293.10016 (12122108)
482350.00 3717950.00 292.40355 (12122108) 482750.00
3717950.00 312.01075 (12122108)
483350.00 3717950.00 348.73736 (12122108) 483450.00
3717950.00 405.30003 (13012508)
483550.00 3717950.00 495.74520 (13012508) 484550.00
3717950.00 426.59510 (14012208)
484650.00 3717950.00 355.88401 (13020108) 484750.00
3717950.00 302.27889 (13020108)
484850.00 3717950.00 259.68873 (13020108) 484950.00
3717950.00 221.72656 (13020108)
485350.00 3717950.00 131.53365 (13020108) 485450.00
3717950.00 117.06664 (13020108)
485550.00 3717950.00 109.54113 (13020108) 485650.00
3717950.00 97.84535 (13020108)
485750.00 3717950.00 89.19134 (13020108) 485850.00
3717950.00 84.01952 (16112816)
485950.00 3717950.00 80.07672 (16112816) 486050.00

3717950.00   74.83313 (13112508)
        481950.00   3718050.00   184.52264 (12122108)   482050.00
3718050.00   178.05315 (12122108)
        482750.00   3718050.00   308.78647 (13012508)   482850.00
3718050.00   241.58018 (13012508)
        482950.00   3718050.00   295.61126 (13012508)   483050.00
3718050.00   289.13330 (13012508)
        483150.00   3718050.00   323.63666 (13012508)   483250.00
3718050.00   358.84467 (13012508)
        483350.00   3718050.00   378.17640 (13012508)   483450.00
3718050.00   413.01253 (13012508)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                               *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                   INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                  L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                  L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                  L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        483550.00   3718050.00   465.17869 (16010708)   483650.00
3718050.00   551.84813 (16021808)
        484550.00   3718050.00   467.75795 (12012408)   484650.00
3718050.00   348.01944 (12012408)
        485450.00   3718050.00   132.55466 (13020108)   485550.00
3718050.00   120.16005 (13020108)
        485650.00   3718050.00   108.22029 (13020108)   485750.00
3718050.00   98.91377 (13020108)

```
        485850.00   3718050.00       92.16603  (13020108)              485950.00
3718050.00       86.74560  (13020108)
        486050.00   3718050.00       81.33865  (13020108)              481950.00
3718150.00      238.01904  (13012508)
        482050.00   3718150.00      219.87589  (13012508)              482150.00
3718150.00      216.14365  (13012508)
        482250.00   3718150.00      246.52353  (13012508)              482350.00
3718150.00      285.20076  (13012508)
        482650.00   3718150.00      333.41604  (13012508)              482750.00
3718150.00      293.66740  (13012508)
        482850.00   3718150.00      373.84037  (13012508)              482950.00
3718150.00      399.36218  (16010708)
        483050.00   3718150.00      434.72410  (16010708)              483150.00
3718150.00      419.43534  (16010708)
        483350.00   3718150.00      403.84598  (16010708)              483450.00
3718150.00      431.22927  (16021808)
        483550.00   3718150.00      604.86895  (16021808)              483650.00
3718150.00      790.44002  (16021808)
        484550.00   3718150.00      427.45108  (12012408)              484650.00
3718150.00      359.20717  (12012408)
        485250.00   3718150.00      155.43589  (13011108)              485550.00
3718150.00      120.09251  (13020108)
        485650.00   3718150.00      110.91434  (13020108)              485750.00
3718150.00      102.89837  (13020108)
        481950.00   3718250.00      250.89757  (13012508)              482050.00
3718250.00      248.41038  (13012508)
        482150.00   3718250.00      224.04176  (13012508)              482250.00
3718250.00      209.00562  (13012508)
        482350.00   3718250.00      252.78400  (13012508)              482450.00
3718250.00      275.20260  (13012508)
        482550.00   3718250.00      292.71952  (16010708)              482650.00
3718250.00      301.34110  (16010708)
        482750.00   3718250.00      329.11371  (16010708)              482850.00
3718250.00      387.70569  (16010708)
        482950.00   3718250.00      388.96789  (16010708)              483250.00
3718250.00      536.55134  (13010408)
        484550.00   3718250.00      401.01569  (12121316)              484650.00
3718250.00      308.16687  (12012408)
        484750.00   3718250.00      281.51207  (12012408)              484850.00
3718250.00      252.51839  (15121108)
        485150.00   3718250.00      163.74135  (13011108)              485250.00
3718250.00      151.83746  (13011108)
        485650.00   3718250.00      111.69210  (13011108)              481950.00
3718350.00      197.75333  (13012508)
        482050.00   3718350.00      198.16126  (13012508)              482150.00
3718350.00      183.17123  (16021608)
        482250.00   3718350.00      182.90017  (16010708)              482350.00
3718350.00      253.79431  (16010708)
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        482450.00   3718350.00      311.17431  (16010708)                482550.00
3718350.00      337.14713  (16010708)
        482650.00   3718350.00      351.27073  (16010708)                482750.00
3718350.00      362.16885  (16010708)
        483150.00   3718350.00      386.47558  (13010408)                483450.00
3718350.00      619.84756  (12121808)
        485250.00   3718350.00      149.03401  (15121108)                485350.00
3718350.00      131.29512  (15121108)
        485550.00   3718350.00      112.58548  (13011108)                485650.00
3718350.00      113.41344  (13011108)
        486150.00   3718350.00       78.25830  (13011108)                486250.00
3718350.00       73.87059  (13011108)
        481950.00   3718450.00      186.28301  (16010708)                482050.00
3718450.00      222.81288  (16010708)
        482150.00   3718450.00      221.63516  (16010708)                482250.00
3718450.00      216.36604  (16010708)
        482350.00   3718450.00      255.80323  (16010708)                482450.00
3718450.00      305.45342  (16010708)
        482550.00   3718450.00      318.70519  (16010708)                482650.00
3718450.00      315.87744  (16010708)
        482750.00   3718450.00      316.44918  (13010408)                482850.00
3718450.00      364.43106  (13010408)
        483350.00   3718450.00      516.01553  (14121708)                484450.00
3718450.00      396.69114  (12121416)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***       04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***       09:53:15

                                   PAGE 688
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                   INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10    IN MICROGRAMS/M**3
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      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)             X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
        485150.00   3718450.00      167.93225  (15121108)               485250.00
3718450.00      150.50587  (15121108)
        485350.00   3718450.00      140.24817  (15121108)               485750.00
3718450.00       95.29054  (13011108)
        485850.00   3718450.00       88.90286  (13011108)               485950.00
3718450.00       84.12231  (13011108)
        486050.00   3718450.00       82.54835  (13011108)               481950.00
3718550.00      192.54929  (16010708)
        482050.00   3718550.00      213.97935  (16010708)               482150.00
3718550.00      231.90631  (16010708)
        482250.00   3718550.00      225.48861  (16010708)               482350.00
3718550.00      223.95273  (16010708)
        482450.00   3718550.00      246.09824  (16010708)               482550.00
3718550.00      265.89152  (13010408)
        482650.00   3718550.00      314.59956  (13010408)               482750.00
3718550.00      361.35115  (13010408)
        482850.00   3718550.00      377.06980  (13010408)               482950.00
3718550.00      329.87391  (13010408)
        483550.00   3718550.00      618.25406  (14120208)               484650.00
3718550.00      271.29845  (12121416)
        484750.00   3718550.00      241.35754  (14122308)               484850.00
3718550.00      214.72209  (12010308)
        485850.00   3718550.00       87.15222  (15121108)               485950.00
3718550.00       79.79515  (15121108)
        482050.00   3718650.00      169.67460  (16010708)               482150.00
3718650.00      176.91001  (16010708)
        482250.00   3718650.00      182.84765  (16010708)               482350.00
3718650.00      217.39350  (13010408)
        482450.00   3718650.00      255.45423  (13010408)               482550.00
3718650.00      292.82828  (13010408)
        482650.00   3718650.00      323.05711  (13010408)               482750.00
3718650.00      327.36389  (13010408)
        482850.00   3718650.00      351.99688  (14121708)               482950.00
3718650.00      391.65162  (14121708)
        485150.00   3718650.00      129.35416  (12010308)               485450.00
3718650.00      119.61371  (15121108)
        485550.00   3718650.00      112.30707  (15121108)               485650.00
3718650.00      103.31771  (15121108)
        485850.00   3718650.00       97.64683  (15121108)               485950.00
3718650.00       84.45081  (15121108)
        486050.00   3718650.00       81.45876  (15121108)               482050.00
3718750.00      121.46281  (16010708)
        482150.00   3718750.00      155.51438  (13010408)               482250.00
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3718750.00      188.94250  (13010408)
        482350.00   3718750.00      233.46748  (13010408)                482450.00
3718750.00      264.26992  (13010408)
        482550.00   3718750.00      274.22640  (13010408)                482650.00
3718750.00      261.74058  (14121708)
        482750.00   3718750.00      321.29758  (14121708)                482850.00
3718750.00      351.48843  (14121708)
        482950.00   3718750.00      333.43166  (14121708)                483050.00
3718750.00      322.42651  (12121808)
        484950.00   3718750.00      177.38142  (14122308)                485050.00
3718750.00      164.23890  (12010308)
        485150.00   3718750.00      149.03054  (12010308)                485850.00
3718750.00       99.76136  (15121108)
        485950.00   3718750.00       90.22667  (15121108)                486050.00
3718750.00       83.83506  (15121108)
        482350.00   3718850.00      218.62891  (13010408)                482450.00
3718850.00      220.97998  (13010408)
        482550.00   3718850.00      239.96165  (14121708)                482650.00
3718850.00      277.15634  (14121708)
        482750.00   3718850.00      300.29693  (14121708)                482850.00
3718850.00      287.71959  (14121708)
        482950.00   3718850.00      277.42713  (12121808)                483050.00
3718850.00      284.97354  (12120308)
        483150.00   3718850.00      299.26153  (12010608)                484150.00
3718850.00      433.78664  (13010108)
        484250.00   3718850.00      297.41668  (13010108)                485350.00
3718850.00      111.52556  (12010308)
        485450.00   3718850.00       94.20389  (12010308)                485750.00
3718850.00       92.22846  (15121108)
        485850.00   3718850.00       90.56518  (15121108)                485950.00
3718850.00       90.93765  (15121108)
        486050.00   3718850.00       82.68777  (15121108)                482450.00
3718950.00      214.41024  (14121708)
        482550.00   3718950.00      243.98301  (14121708)                482650.00
3718950.00      241.75097  (14121708)
        482750.00   3718950.00      232.70822  (14121708)                482850.00
3718950.00      242.46399  (12120308)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                   PAGE 689
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                   INCLUDING SOURCE(S):     L0000001    , L0000002
```

, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
482950.00	3718950.00	246.26472	(12120308)	483050.00	3718950.00	276.96892	(12010608)
483150.00	3718950.00	331.75844	(12010608)	483250.00	3718950.00	314.99063	(14120208)
485750.00	3718950.00	87.87368	(15121108)	485850.00	3718950.00	85.89269	(15121108)
485950.00	3718950.00	81.54414	(15121108)	486050.00	3718950.00	81.76950	(15121108)
482250.00	3719050.00	161.83147	(14121708)	482350.00	3719050.00	191.42430	(14121708)
482450.00	3719050.00	205.13865	(14121708)	482550.00	3719050.00	200.62442	(14121708)
482650.00	3719050.00	201.41734	(12121808)	482850.00	3719050.00	212.84201	(12120308)
482950.00	3719050.00	227.33551	(12010608)	483050.00	3719050.00	282.88871	(12010608)
483150.00	3719050.00	287.09958	(12121408)	483250.00	3719050.00	302.85174	(14120208)
483350.00	3719050.00	290.17271	(16012008)	483450.00	3719050.00	305.11850	(16012008)
483550.00	3719050.00	282.59412	(12012308)	485250.00	3719050.00	119.05564	(14122308)
485450.00	3719050.00	102.91145	(12010308)	485550.00	3719050.00	92.89793	(12010308)
485650.00	3719050.00	85.63766	(12010308)	485750.00	3719050.00	78.52463	(12010308)
482350.00	3719150.00	180.91048	(14121708)	482650.00	3719150.00	188.51576	(13020608)
482850.00	3719150.00	195.15113	(12010608)	483050.00	3719150.00	255.07330	(12010608)

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        483150.00   3719150.00      274.03500  (14120208)              483250.00
3719150.00      250.56103  (14120208)
        483350.00   3719150.00      298.59022  (16012008)              483450.00
3719150.00      266.48633  (16012008)
        483550.00   3719150.00      274.37529  (12012308)              485250.00
3719150.00      119.96070  (14122308)
        485550.00   3719150.00       96.19747  (12010308)              485650.00
3719150.00       90.60422  (12010308)
        485950.00   3719150.00       63.94153  (12010308)              484550.00
3719250.00      141.42415  (14021908)
        484750.00   3719250.00      128.00720  (14021908)              484850.00
3719250.00      110.06537  (14021908)
        484750.00   3719350.00      123.85919  (14021908)              484850.00
3719350.00      109.39378  (14021908)
        484950.00   3719350.00       98.71010  (12121416)              485050.00
3719350.00      102.61827  (12121416)
        485150.00   3719350.00      102.11908  (12121416)              484250.00
3719450.00      201.00793  (13010108)
        484350.00   3719450.00      155.29909  (14010608)              484450.00
3719450.00      125.07794  (14010608)
        484550.00   3719450.00      116.75292  (14021908)              484650.00
3719450.00      120.68587  (14021908)
        484750.00   3719450.00      117.50968  (14021908)              484850.00
3719450.00      107.85194  (14021908)
        484950.00   3719450.00       94.63339  (14021908)              485050.00
3719450.00       94.11717  (12121416)
        485150.00   3719450.00       94.80582  (12121416)              485250.00
3719450.00       94.53489  (12121416)
        485350.00   3719450.00       93.63068  (12010208)              485450.00
3719450.00       92.47166  (12010208)
        485550.00   3719450.00       91.86640  (14122308)              484250.00
3719550.00      214.56531  (13010108)
        484350.00   3719550.00      160.14225  (13010108)              484450.00
3719550.00      126.04041  (14010608)
        484550.00   3719550.00      105.48894  (14021908)              484650.00
3719550.00      112.54422  (14021908)
        484750.00   3719550.00      111.04895  (14021908)              484850.00
3719550.00      105.27499  (14021908)
        484950.00   3719550.00       95.15979  (14021908)              485050.00
3719550.00       81.88588  (12121416)
        485150.00   3719550.00       86.48559  (12121416)              485250.00
3719550.00       86.85493  (12121416)
        485350.00   3719550.00       88.80669  (12121416)              485450.00
3719550.00       87.46106  (12010208)
        485550.00   3719550.00       87.34631  (12010208)              484450.00
3719850.00      114.92849  (14010608)
        484550.00   3719850.00       92.53438  (14010608)              484650.00
3719850.00       87.83296  (14021908)
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        484350.00   3719950.00   138.56372 (13010108)   484450.00
3719950.00   119.97582 (13010108)
 *** AERMOD - VERSION 19191 ***   *** Curci Vineyard III Construction HRA
                        ***   04/16/20
 *** AERMET - VERSION 16216 ***   ***
                       ***   09:53:15

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                              INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                 L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                 L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                 L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10   IN MICROGRAMS/M**3
                 **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        484550.00   3719950.00   102.04066 (14010608)   484650.00
3719950.00   80.26213 (14021908)
        483837.50   3717212.50   346.47985 (12021708)   483862.50
3717212.50   331.33094 (12021708)
        483887.50   3717212.50   346.24270 (14010208)   483412.50
3717237.50   262.96897 (13012308)
        483812.50   3717237.50   345.63230 (12021708)   483837.50
3717237.50   345.43728 (12021708)
        483862.50   3717237.50   342.26986 (12021708)   483887.50
3717237.50   350.58371 (14010208)
        483912.50   3717237.50   377.94541 (12020608)   483937.50
3717237.50   402.56638 (12020608)
        483412.50   3717262.50   262.12256 (13121608)   483437.50
3717262.50   264.40831 (13012308)
        483462.50   3717262.50   265.48914 (12010408)   483812.50
3717262.50   340.39357 (12021708)
        483837.50   3717262.50   347.45722 (12021708)   483862.50

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3717262.50      350.35749  (12021708)
        483887.50   3717262.50      358.20782  (12021708)              483912.50
3717262.50      379.90973  (12020608)
        483937.50   3717262.50      406.91128  (12020608)              483962.50
3717262.50      443.13244  (12020608)
        483987.50   3717262.50      466.40295  (12020608)              483412.50
3717287.50      263.55834  (13121608)
        483437.50   3717287.50      265.01151  (13121608)              483462.50
3717287.50      267.62377  (13012308)
        483487.50   3717287.50      270.04970  (12010408)              483812.50
3717287.50      353.78527  (12021708)
        483837.50   3717287.50      362.12536  (12021708)              483862.50
3717287.50      367.06699  (12021708)
        483887.50   3717287.50      373.47033  (12021708)              483912.50
3717287.50      393.94830  (12020608)
        483937.50   3717287.50      427.40152  (12020608)              483962.50
3717287.50      461.20712  (12020608)
        483987.50   3717287.50      487.15269  (12020608)              484012.50
3717287.50      503.40792  (12020608)
        483412.50   3717312.50      266.33352  (13121608)              483437.50
3717312.50      269.26309  (13121608)
        483462.50   3717312.50      270.69844  (13121608)              483487.50
3717312.50      273.65576  (13012308)
        483512.50   3717312.50      277.27718  (12010408)              483787.50
3717312.50      360.23546  (12021708)
        483812.50   3717312.50      377.17894  (12021708)              483837.50
3717312.50      390.57062  (12021708)
        483862.50   3717312.50      399.40782  (12021708)              483887.50
3717312.50      403.45817  (12021708)
        483912.50   3717312.50      417.23047  (12020608)              483937.50
3717312.50      453.18317  (12020608)
        483962.50   3717312.50      487.56319  (12020608)              483987.50
3717312.50      514.36526  (12020608)
        484012.50   3717312.50      530.93876  (12020608)              484037.50
3717312.50      534.69632  (12020608)
        484562.50   3717312.50      337.08621  (16120208)              484587.50
3717312.50      323.42812  (16120208)
        484612.50   3717312.50      304.89864  (16120208)              484637.50
3717312.50      289.93301  (16121908)
        484662.50   3717312.50      273.65782  (16121908)              484687.50
3717312.50      258.40278  (16121908)
        484712.50   3717312.50      245.52758  (16121908)              484737.50
3717312.50      239.25939  (13010208)
        484762.50   3717312.50      235.25156  (13010208)              483412.50
3717337.50      268.48512  (13121608)
        483437.50   3717337.50      273.56072  (13121608)              483462.50
3717337.50      276.58794  (13121608)
        483487.50   3717337.50      279.48615  (13121608)              483512.50
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3717337.50 283.71397 (13012308)
483537.50 3717337.50 291.10478 (12010408) 483787.50
3717337.50 375.92791 (12021708)
483812.50 3717337.50 403.18822 (12021708) 483837.50
3717337.50 422.79946 (12021708)
483862.50 3717337.50 436.50630 (12021708) 483887.50
3717337.50 443.77121 (12021708)
483912.50 3717337.50 450.44738 (12020608) 483937.50
3717337.50 480.58143 (12020608)
483962.50 3717337.50 515.53360 (12020608) 483987.50
3717337.50 545.26378 (12020608)
484012.50 3717337.50 559.81829 (12020608) 484037.50
3717337.50 558.75976 (12020608)
484562.50 3717337.50 351.74316 (16120208) 484587.50
3717337.50 334.88386 (16120208)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
484612.50	3717337.50	317.91849	(16121908)	484637.50	3717337.50	299.37989	(16121908)
484662.50	3717337.50	281.42473	(16121908)	484687.50	3717337.50	265.77641	(16121908)

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        484712.50   3717337.50      257.22484  (13010208)              484737.50
3717337.50      254.49342  (13010208)
        484762.50   3717337.50      248.49965  (13010208)              483412.50
3717362.50      268.02919  (13121608)
        483437.50   3717362.50      274.48442  (13121608)              483462.50
3717362.50      281.27212  (13121608)
        483487.50   3717362.50      287.20922  (13121608)              483512.50
3717362.50      291.67262  (13121608)
        483537.50   3717362.50      300.49164  (13012308)              483787.50
3717362.50      385.20799  (12021708)
        483812.50   3717362.50      422.53165  (12021708)              483837.50
3717362.50      451.55428  (12021708)
        483862.50   3717362.50      476.67274  (12021708)              483887.50
3717362.50      493.14413  (12021708)
        483912.50   3717362.50      489.12009  (12020608)              483937.50
3717362.50      520.38143  (12020608)
        483962.50   3717362.50      541.26662  (12020608)              483987.50
3717362.50      571.84668  (12020608)
        484012.50   3717362.50      586.25551  (12020608)              484037.50
3717362.50      582.53846  (12020608)
        484562.50   3717362.50      359.29836  (16120208)              484587.50
3717362.50      344.17518  (16121908)
        484612.50   3717362.50      327.67403  (16121908)              484637.50
3717362.50      308.04909  (16121908)
        484662.50   3717362.50      288.02414  (16121908)              484687.50
3717362.50      275.25143  (13010208)
        484712.50   3717362.50      270.43539  (13010208)              484737.50
3717362.50      266.67009  (13010208)
        484762.50   3717362.50      259.32247  (13010208)              484787.50
3717362.50      248.03433  (16121208)
        483412.50   3717387.50      264.05435  (13121608)              483437.50
3717387.50      274.92183  (13121608)
        483462.50   3717387.50      285.04036  (13121608)              483487.50
3717387.50      293.38240  (13121608)
        483512.50   3717387.50      300.99201  (13121608)              483537.50
3717387.50      308.90396  (13121608)
        483562.50   3717387.50      316.92680  (13012308)              483787.50
3717387.50      391.70157  (14010108)
        483812.50   3717387.50      430.00107  (12021708)              483837.50
3717387.50      466.50016  (12021708)
        483862.50   3717387.50      506.34400  (12021708)              483887.50
3717387.50      535.18051  (12021708)
        483912.50   3717387.50      527.01210  (12021708)              483937.50
3717387.50      545.50987  (12020608)
        483962.50   3717387.50      569.79347  (12020608)              483987.50
3717387.50      597.69929  (12020608)
        484012.50   3717387.50      609.97134  (12020608)              484037.50
3717387.50      605.44111  (12020608)
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        484062.50   3717387.50      583.76763  (12020608)                484562.50
3717387.50      368.06906  (16121908)
        484587.50   3717387.50      352.76814  (16121908)                484612.50
3717387.50      335.23216  (16121908)
        484637.50   3717387.50      315.27619  (13010208)                484662.50
3717387.50      304.86641  (13010208)
        484687.50   3717387.50      293.90364  (13010208)                484712.50
3717387.50      285.68991  (13010208)
        484737.50   3717387.50      276.33824  (13010208)                484762.50
3717387.50      264.92843  (13010208)
        484787.50   3717387.50      253.82421  (14011608)                483412.50
3717412.50      271.99076  (14120908)
        483437.50   3717412.50      275.26488  (14120908)                483462.50
3717412.50      288.11706  (13121608)
        483487.50   3717412.50      299.65881  (13121608)                483512.50
3717412.50      309.84458  (13121608)
        483537.50   3717412.50      319.18347  (13121608)                483562.50
3717412.50      326.92861  (13121608)
        483787.50   3717412.50      402.66195  (14010108)                483812.50
3717412.50      430.90045  (12021708)
        483837.50   3717412.50      468.43908  (12021708)                483862.50
3717412.50      508.55022  (12021708)
        483887.50   3717412.50      536.20900  (12021708)                483912.50
3717412.50      539.00919  (12021708)
        483937.50   3717412.50      559.60089  (12020608)                483962.50
3717412.50      596.53183  (12020608)
        483987.50   3717412.50      624.59844  (12020608)                484012.50
3717412.50      635.31435  (12020608)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***       04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***       09:53:15

                                  PAGE 692
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
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** CONC OF PM_10 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
484037.50	3717412.50	629.06043	(12020608)	484062.50	3717412.50	601.87085	(12020608)
484487.50	3717412.50	418.49222	(16120208)	484512.50	3717412.50	402.17310	(16120208)
484537.50	3717412.50	386.16953	(16121908)	484562.50	3717412.50	374.24489	(16121908)
484587.50	3717412.50	359.59982	(16121908)	484612.50	3717412.50	345.80745	(13010208)
484637.50	3717412.50	334.58638	(13010208)	484662.50	3717412.50	320.73974	(13010208)
484687.50	3717412.50	310.95168	(13010208)	484712.50	3717412.50	298.51817	(13010208)
484737.50	3717412.50	283.39758	(13010208)	484762.50	3717412.50	270.17630	(14011608)
484787.50	3717412.50	259.50220	(14011608)	483412.50	3717437.50	283.32433	(14120908)
483437.50	3717437.50	288.95371	(14120908)	483462.50	3717437.50	293.80657	(14120908)
483487.50	3717437.50	303.96928	(13121608)	483512.50	3717437.50	316.43719	(13121608)
483537.50	3717437.50	327.75413	(13121608)	483562.50	3717437.50	337.61004	(13121608)
483587.50	3717437.50	344.07565	(13121608)	483837.50	3717437.50	469.26859	(12021708)
483862.50	3717437.50	500.00884	(12021708)	483887.50	3717437.50	525.27711	(12021708)
483912.50	3717437.50	549.26947	(12021708)	483937.50	3717437.50	572.91657	(12020608)
483962.50	3717437.50	624.47102	(12020608)	483987.50	3717437.50	655.37755	(12020608)
484012.50	3717437.50	665.51256	(12020608)	484037.50	3717437.50	657.36535	(12020608)
484062.50	3717437.50	630.66588	(12020608)	484487.50	3717437.50	426.75958	(16120208)
484512.50	3717437.50	404.99035	(16121908)	484537.50	3717437.50	390.94927	(16121908)
484562.50	3717437.50	376.33278	(16121908)	484587.50	3717437.50	368.43557	(13010208)
484612.50	3717437.50	365.42212	(13010208)	484637.50			

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3717437.50      355.87333  (13010208)
        484662.50   3717437.50      340.44539  (13010208)              484687.50
3717437.50      324.66043  (13010208)
        484712.50   3717437.50      305.97512  (13010208)              484737.50
3717437.50      288.08540  (13010208)
        484762.50   3717437.50      275.85843  (14011608)              483412.50
3717462.50      292.85090  (14120908)
        483437.50   3717462.50      300.43527  (14120908)              483462.50
3717462.50      306.70617  (14120908)
        483487.50   3717462.50      311.71485  (14120908)              483512.50
3717462.50      319.37608  (13121608)
        483537.50   3717462.50      333.93278  (13121608)              483562.50
3717462.50      345.99823  (13121608)
        483587.50   3717462.50      355.36759  (13121608)              483887.50
3717462.50      566.58617  (12021708)
        483912.50   3717462.50      594.34298  (12021708)              483937.50
3717462.50      607.28183  (12020608)
        483962.50   3717462.50      667.58202  (12020608)              483987.50
3717462.50      704.77981  (12020608)
        484012.50   3717462.50      718.13183  (12020608)              484037.50
3717462.50      706.38460  (12020608)
        484062.50   3717462.50      671.17542  (12020608)              484487.50
3717462.50      429.54783  (16120208)
        484512.50   3717462.50      412.07742  (16121908)              484537.50
3717462.50      392.08831  (16121908)
        484562.50   3717462.50      382.96310  (13010208)              484587.50
3717462.50      378.98504  (13010208)
        484612.50   3717462.50      377.73923  (13010208)              484637.50
3717462.50      372.26029  (13010208)
        484662.50   3717462.50      363.10593  (13010208)              484687.50
3717462.50      334.69716  (13010208)
        484712.50   3717462.50      308.69640  (13010208)              484737.50
3717462.50      292.79011  (14011608)
        484762.50   3717462.50      279.24631  (14011608)              483412.50
3717487.50      304.60629  (12120608)
        483437.50   3717487.50      310.44952  (12120608)              483462.50
3717487.50      317.39667  (14120908)
        483487.50   3717487.50      324.69870  (14120908)              483512.50
3717487.50      330.53385  (14120908)
        483537.50   3717487.50      336.16275  (13121608)              483562.50
3717487.50      351.26190  (13121608)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 693
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
483587.50	3717487.50	363.87410	(13121608)	483612.50	3717487.50	373.54664	(13121608)
483912.50	3717487.50	657.17436	(12021708)	483937.50	3717487.50	659.03714	(12021708)
483962.50	3717487.50	730.00623	(12020608)	483987.50	3717487.50	779.55514	(12020608)
484012.50	3717487.50	796.44789	(12020608)	484037.50	3717487.50	777.28939	(12020608)
484062.50	3717487.50	728.50882	(12020608)	484537.50	3717487.50	404.48877	(13010208)
484562.50	3717487.50	394.02218	(13010208)	484587.50	3717487.50	384.28305	(13010208)
484612.50	3717487.50	379.78701	(13010208)	484637.50	3717487.50	372.50902	(13010208)
484662.50	3717487.50	376.51752	(13010208)	484687.50	3717487.50	345.86528	(13010208)
484712.50	3717487.50	315.89087	(15112616)	484737.50	3717487.50	302.94074	(15112616)
484762.50	3717487.50	292.05157	(15112616)	483412.50	3717512.50	314.62987	(12120608)
483437.50	3717512.50	326.94783	(12120608)	483462.50	3717512.50	335.09035	(12120608)
483487.50	3717512.50	338.58486	(14120908)	483512.50	3717512.50	344.77640	(14120908)
483537.50	3717512.50	351.09267	(14120908)	483562.50	3717512.50	356.07611	(14120908)

```
        483587.50   3717512.50      370.60632  (13121608)              483612.50
3717512.50      384.03244  (13121608)
        483912.50   3717512.50      727.79024  (12021708)              483937.50
3717512.50      743.59077  (12021708)
        483962.50   3717512.50      815.50447  (12020608)              483987.50
3717512.50      873.10403  (12020608)
        484012.50   3717512.50      893.35008  (12020608)              484037.50
3717512.50      871.24619  (12020608)
        484062.50   3717512.50      809.76182  (12020608)              484537.50
3717512.50      417.29995  (13010208)
        484562.50   3717512.50      402.76195  (13010208)              484587.50
3717512.50      388.98499  (13010208)
        484612.50   3717512.50      378.32650  (13010208)              484637.50
3717512.50      368.15173  (13010208)
        484662.50   3717512.50      356.31365  (15112616)              484687.50
3717512.50      349.30969  (15112616)
        484712.50   3717512.50      335.26207  (15112616)              484737.50
3717512.50      318.15778  (15112616)
        484762.50   3717512.50      305.26994  (15112616)              483412.50
3717537.50      319.77740  (12120608)
        483437.50   3717537.50      342.00573  (12120608)              483462.50
3717537.50      356.64230  (12120608)
        483487.50   3717537.50      361.28795  (12120608)              483512.50
3717537.50      363.11583  (12120608)
        483537.50   3717537.50      368.23073  (14120908)              483562.50
3717537.50      374.53537  (14120908)
        483587.50   3717537.50      379.78531  (14120908)              483612.50
3717537.50      391.29224  (13121608)
        483637.50   3717537.50      407.98538  (13121608)              483937.50
3717537.50      852.78305  (12021708)
        483962.50   3717537.50      920.15500  (12020608)              483987.50
3717537.50      991.96085  (12020608)
        484012.50   3717537.50     1013.64308  (12020608)              484037.50
3717537.50      983.61026  (12020608)
        484062.50   3717537.50      905.31123  (12020608)              483412.50
3717562.50      318.15361  (12120608)
        483437.50   3717562.50      342.71697  (12120608)              483462.50
3717562.50      362.28067  (12120608)
        483487.50   3717562.50      374.66285  (12120608)              483512.50
3717562.50      382.55414  (12120608)
        483537.50   3717562.50      387.33442  (12120608)              483562.50
3717562.50      392.00937  (14120908)
        483587.50   3717562.50      399.23257  (14120908)              483612.50
3717562.50      404.79668  (14120908)
        483637.50   3717562.50      413.72746  (13121608)              483937.50
3717562.50      982.47641  (12021708)
        483962.50   3717562.50     1054.95028  (12020608)              483987.50
3717562.50     1146.64405  (12020608)
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        484012.50   3717562.50   1176.45818 (12110208)   484037.50
3717562.50   1125.25527 (12110208)
        484062.50   3717562.50   1023.62346 (12020608)   483412.50
3717587.50   325.26054 (12011608)
        483437.50   3717587.50   341.35613 (12011608)   483462.50
3717587.50   360.04869 (12112608)
 *** AERMOD - VERSION 19191 ***   *** Curci Vineyard III Construction HRA
                          ***   04/16/20
 *** AERMET - VERSION 16216 ***   ***
                         ***   09:53:15

                                   PAGE 694
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                   INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                  L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                  L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                  L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        483487.50   3717587.50   376.36576 (12120608)   483512.50
3717587.50   392.98306 (12120608)
        483537.50   3717587.50   405.00533 (12120608)   483562.50
3717587.50   413.88680 (12120608)
        483587.50   3717587.50   419.29899 (12120608)   483612.50
3717587.50   423.02595 (14120908)
        483637.50   3717587.50   431.03909 (14120908)   484512.50
3717612.50   464.06989 (15112616)
        484537.50   3717612.50   446.60606 (15112616)   484562.50
3717612.50   432.99578 (15112616)
        484587.50   3717612.50   416.75609 (15112616)   484612.50
3717612.50   400.71163 (15112616)
        484637.50   3717612.50   386.61177 (15112616)   484662.50

3717612.50 371.35937 (15112616)
484687.50 3717612.50 356.45059 (15112616) 484712.50
3717612.50 340.48860 (15112616)
484737.50 3717612.50 320.42719 (15112616) 484762.50
3717612.50 305.21250 (13010708)
484787.50 3717612.50 292.07756 (13010708) 484812.50
3717612.50 279.32027 (13010708)
484837.50 3717612.50 262.09386 (13010708) 484862.50
3717612.50 250.41044 (13010708)
484512.50 3717637.50 485.12316 (15112616) 484537.50
3717637.50 459.84310 (15112616)
484562.50 3717637.50 438.51601 (15112616) 484587.50
3717637.50 420.25884 (15112616)
484612.50 3717637.50 402.24727 (15112616) 484637.50
3717637.50 383.42378 (15112616)
484662.50 3717637.50 367.17421 (15112616) 484687.50
3717637.50 351.89214 (13010708)
484712.50 3717637.50 339.17568 (13010708) 484737.50
3717637.50 323.33341 (13010708)
484762.50 3717637.50 307.49043 (13010708) 484787.50
3717637.50 294.78471 (13010708)
484812.50 3717637.50 283.02211 (13010708) 484837.50
3717637.50 269.48037 (13010708)
484862.50 3717637.50 255.51524 (13010708) 484512.50
3717662.50 492.30257 (15112616)
484537.50 3717662.50 464.88767 (15112616) 484562.50
3717662.50 439.06849 (15112616)
484587.50 3717662.50 417.25935 (15112616) 484612.50
3717662.50 396.70313 (15112616)
484637.50 3717662.50 380.57123 (13010708) 484662.50
3717662.50 366.48787 (13010708)
484687.50 3717662.50 355.22524 (13010708) 484712.50
3717662.50 343.07378 (13010708)
484737.50 3717662.50 329.87377 (13010708) 484762.50
3717662.50 313.75739 (13010708)
484787.50 3717662.50 311.06229 (13010708) 484812.50
3717662.50 298.51089 (13010708)
484837.50 3717662.50 275.88535 (13010708) 484862.50
3717662.50 257.90196 (13010708)
484512.50 3717687.50 496.93903 (15112616) 484537.50
3717687.50 462.93841 (15112616)
484562.50 3717687.50 437.64183 (13010708) 484587.50
3717687.50 417.96947 (13010708)
484612.50 3717687.50 399.66467 (13010708) 484637.50
3717687.50 382.40676 (13010708)
484662.50 3717687.50 366.36038 (13010708) 484687.50
3717687.50 353.99073 (13010708)
484712.50 3717687.50 340.46049 (13010708) 484737.50

3717687.50 328.22115 (13010708)
484762.50 3717687.50 320.23478 (13010708) 484787.50
3717687.50 316.15703 (15122816)
484812.50 3717687.50 311.45640 (15122816) 484837.50
3717687.50 294.69060 (15122816)
484862.50 3717687.50 267.78808 (15122816) 484512.50
3717712.50 506.23449 (13010708)
484537.50 3717712.50 471.73525 (13010708) 484562.50
3717712.50 443.44779 (13010708)
484587.50 3717712.50 420.59520 (13010708) 484612.50
3717712.50 400.13760 (13010708)
484637.50 3717712.50 381.44082 (13010708) 484662.50
3717712.50 363.39421 (13010708)
484687.50 3717712.50 350.40234 (15122816) 484712.50
3717712.50 339.08201 (15122816)
484737.50 3717712.50 329.25387 (15122816) 484762.50
3717712.50 320.60607 (15122816)
484787.50 3717712.50 311.98113 (15122816) 484812.50
3717712.50 305.67130 (15122816)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)

```
        484837.50   3717712.50      294.66125  (15122816)              484862.50
3717712.50      275.49618  (15122816)
        484512.50   3717737.50      509.15142  (13010708)              484537.50
3717737.50      475.24864  (13010708)
        484562.50   3717737.50      446.04007  (13010708)              484587.50
3717737.50      424.83178  (15122816)
        484612.50   3717737.50      407.02200  (15122816)              484637.50
3717737.50      389.94804  (15122816)
        484662.50   3717737.50      373.40545  (15122816)              484687.50
3717737.50      357.84610  (15122816)
        484712.50   3717737.50      343.94965  (15122816)              484737.50
3717737.50      332.28627  (15122816)
        484762.50   3717737.50      321.48589  (15122816)              484787.50
3717737.50      309.09748  (15122816)
        484812.50   3717737.50      296.52223  (15122816)              484837.50
3717737.50      284.41182  (15122816)
        484862.50   3717737.50      272.62999  (15122816)              484512.50
3717762.50      523.64606  (15122816)
        484537.50   3717762.50      494.90711  (15122816)              484562.50
3717762.50      468.16113  (15122816)
        484587.50   3717762.50      446.75766  (15122816)              484612.50
3717762.50      423.87479  (15122816)
        484637.50   3717762.50      401.07602  (15122816)              484662.50
3717762.50      381.79308  (15122816)
        484687.50   3717762.50      363.35722  (15122816)              484712.50
3717762.50      347.66787  (15122816)
        484737.50   3717762.50      334.31256  (15122816)              484762.50
3717762.50      322.92168  (15122816)
        484787.50   3717762.50      308.43509  (15122816)              484812.50
3717762.50      291.81633  (15122816)
        484837.50   3717762.50      277.45212  (15122816)              484862.50
3717762.50      265.09773  (15122816)
        484512.50   3717787.50      545.05912  (15122816)              484537.50
3717787.50      514.41508  (15122816)
        484562.50   3717787.50      493.67736  (15122816)              484587.50
3717787.50      464.88284  (15122816)
        484612.50   3717787.50      433.61782  (15122816)              484637.50
3717787.50      407.45278  (15122816)
        484662.50   3717787.50      385.56874  (15122816)              484687.50
3717787.50      366.62605  (15122816)
        484712.50   3717787.50      350.30126  (15122816)              484737.50
3717787.50      337.47483  (15122816)
        484762.50   3717787.50      322.97298  (15122816)              484787.50
3717787.50      307.31488  (15122816)
        484812.50   3717787.50      289.96479  (15122816)              484837.50
3717787.50      272.55362  (15122816)
        484862.50   3717787.50      260.74354  (15122816)              483412.50
3717812.50      363.02523  (12020108)
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        483437.50   3717812.50      374.56409  (12020108)                483462.50
3717812.50      386.80108  (12020108)
        483487.50   3717812.50      401.44278  (12020108)                484512.50
3717812.50      556.97161  (15122816)
        484537.50   3717812.50      536.02728  (15122816)                484562.50
3717812.50      508.46828  (15122816)
        484587.50   3717812.50      475.12965  (15122816)                484612.50
3717812.50      436.89154  (15122816)
        484637.50   3717812.50      405.81288  (15122816)                484662.50
3717812.50      383.26207  (15122816)
        484687.50   3717812.50      364.51767  (15122816)                484712.50
3717812.50      348.64005  (15122816)
        484737.50   3717812.50      334.22675  (15122816)                484762.50
3717812.50      320.04949  (15122816)
        484787.50   3717812.50      303.57044  (15122816)                484812.50
3717812.50      287.02741  (15122816)
        484837.50   3717812.50      270.83555  (15122816)                484862.50
3717812.50      260.20939  (12010508)
        483412.50   3717837.50      371.30329  (12020108)                483437.50
3717837.50      383.90089  (12020108)
        483462.50   3717837.50      397.57775  (12020108)                483487.50
3717837.50      414.36417  (12020108)
        483512.50   3717837.50      433.37217  (12020108)                484512.50
3717837.50      554.73048  (15122816)
        484537.50   3717837.50      527.97102  (15122816)                484562.50
3717837.50      498.35496  (15122816)
        484587.50   3717837.50      468.07088  (15122816)                484612.50
3717837.50      431.55152  (15122816)
        484637.50   3717837.50      399.64584  (15122816)                484662.50
3717837.50      376.02211  (15122816)
        484687.50   3717837.50      357.85113  (15122816)                484712.50
3717837.50      342.78153  (15122816)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***        09:53:15

                                    PAGE 696
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                    INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
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L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
484737.50	3717837.50	327.36155	(15122816)	484762.50	3717837.50	311.90196	(15122816)
484787.50	3717837.50	296.77023	(15122816)	484812.50	3717837.50	281.15023	(15122816)
484837.50	3717837.50	269.36606	(12010508)	484862.50	3717837.50	258.30145	(12010508)
483412.50	3717862.50	372.89129	(12020108)	483437.50	3717862.50	387.07193	(12020108)
483462.50	3717862.50	403.93264	(12020108)	483487.50	3717862.50	422.60825	(12020108)
483512.50	3717862.50	441.04170	(12020108)	484512.50	3717862.50	531.21468	(15122816)
484537.50	3717862.50	504.66080	(15122816)	484562.50	3717862.50	475.77814	(15122816)
484587.50	3717862.50	447.09835	(15122816)	484612.50	3717862.50	416.48747	(16112816)
484637.50	3717862.50	389.54674	(16112816)	484662.50	3717862.50	368.32273	(16112816)
484687.50	3717862.50	351.85415	(16112816)	484712.50	3717862.50	337.65470	(16112816)
484737.50	3717862.50	322.78675	(16112816)	484762.50	3717862.50	309.00407	(16112816)
484787.50	3717862.50	296.23137	(16112816)	484812.50	3717862.50	283.24908	(16112816)
484837.50	3717862.50	270.17661	(16112816)	484862.50	3717862.50	258.92786	(16112816)
483412.50	3717887.50	371.32775	(15010208)	483437.50	3717887.50	386.89678	(15010208)
483462.50	3717887.50	409.30576	(15121408)	483487.50	3717887.50	432.79759	(15121408)
483512.50	3717887.50	454.16945	(15121408)	483537.50	3717887.50	474.91013	(15121408)
484512.50	3717887.50	518.39595	(16112816)	484537.50	3717887.50	486.32847	(16112816)
484562.50	3717887.50	461.94083	(16112816)	484587.50			

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3717887.50      438.05218  (16112816)
        484612.50   3717887.50      413.10297  (16112816)                484637.50
3717887.50      390.52244  (16112816)
        484662.50   3717887.50      369.05210  (16112816)                484687.50
3717887.50      352.89333  (16112816)
        484712.50   3717887.50      337.20977  (16112816)                484737.50
3717887.50      321.81074  (16112816)
        484762.50   3717887.50      307.94722  (16112816)                484787.50
3717887.50      295.20440  (16112816)
        484812.50   3717887.50      283.31340  (16112816)                484837.50
3717887.50      270.73122  (16112816)
        484862.50   3717887.50      259.35471  (16112816)                483412.50
3717912.50      378.94468  (15010208)
        483437.50   3717912.50      394.04396  (15010208)                483462.50
3717912.50      413.21647  (15010208)
        483487.50   3717912.50      440.58725  (12122108)                483512.50
3717912.50      462.35168  (12122108)
        483537.50   3717912.50      481.33382  (12122108)                483562.50
3717912.50      496.10940  (12122108)
        484512.50   3717912.50      504.88543  (16112816)                484537.50
3717912.50      473.84427  (16112816)
        484562.50   3717912.50      448.25544  (16112816)                484587.50
3717912.50      424.26970  (16112816)
        484612.50   3717912.50      403.55442  (16112816)                484637.50
3717912.50      381.34748  (16112816)
        484662.50   3717912.50      363.73362  (16112816)                484687.50
3717912.50      346.29192  (16112816)
        484712.50   3717912.50      330.99626  (16112816)                484737.50
3717912.50      316.81966  (16112816)
        484762.50   3717912.50      303.41656  (16112816)                484787.50
3717912.50      290.73639  (16112816)
        484812.50   3717912.50      279.11352  (16112816)                484837.50
3717912.50      268.15690  (16112816)
        484862.50   3717912.50      256.22473  (16112816)                483412.50
3717937.50      381.87398  (12122108)
        483437.50   3717937.50      396.43942  (12122108)                483462.50
3717937.50      412.14502  (12122108)
        483487.50   3717937.50      435.74081  (12122108)                483512.50
3717937.50      459.28571  (12122108)
        483537.50   3717937.50      479.10453  (13012508)                483562.50
3717937.50      502.85798  (13012508)
        483587.50   3717937.50      519.43223  (13012508)                484512.50
3717937.50      478.69436  (16112816)
        484537.50   3717937.50      452.20034  (16112816)                484562.50
3717937.50      427.17529  (16112816)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
484587.50	3717937.50	406.71002	(16112816)	484612.50	3717937.50	386.00500	(16112816)
484637.50	3717937.50	367.27999	(16112816)	484662.50	3717937.50	349.97940	(16112816)
484687.50	3717937.50	335.33335	(16112816)	484712.50	3717937.50	320.63348	(16112816)
484737.50	3717937.50	307.05786	(16112816)	484762.50	3717937.50	295.04928	(16112816)
484787.50	3717937.50	283.11144	(16112816)	484812.50	3717937.50	271.82818	(16112816)
484837.50	3717937.50	261.47818	(16112816)	484862.50	3717937.50	251.22691	(16112816)
483412.50	3717962.50	387.09130	(13012508)	483437.50	3717962.50	403.40560	(13012508)
483462.50	3717962.50	420.18555	(13012508)	483487.50	3717962.50	438.20185	(13012508)
483512.50	3717962.50	459.01441	(13012508)	483537.50	3717962.50	479.66493	(13012508)
483562.50	3717962.50	501.58841	(13012508)	483587.50	3717962.50	516.47505	(13012508)
483612.50	3717962.50	530.82017	(13012508)	484512.50	3717962.50	458.53356	(14012208)

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        484537.50   3717962.50      437.68348  (14012208)              484562.50
3717962.50      417.27281  (14012208)
        484587.50   3717962.50      399.61075  (13020108)              484612.50
3717962.50      381.91677  (13020108)
        484637.50   3717962.50      366.17664  (13020108)              484662.50
3717962.50      350.66252  (13020108)
        484687.50   3717962.50      337.63109  (13020108)              484712.50
3717962.50      324.61290  (13020108)
        484737.50   3717962.50      311.13785  (13020108)              484762.50
3717962.50      299.38399  (13020108)
        484787.50   3717962.50      288.46852  (13020108)              484812.50
3717962.50      277.94212  (13020108)
        484837.50   3717962.50      267.72648  (13020108)              484862.50
3717962.50      257.87683  (13020108)
        483412.50   3717987.50      394.63269  (13012508)              483437.50
3717987.50      410.02426  (13012508)
        483462.50   3717987.50      426.34051  (13012508)              483487.50
3717987.50      439.83564  (13012508)
        483512.50   3717987.50      457.48712  (13012508)              483537.50
3717987.50      474.70509  (13012508)
        483562.50   3717987.50      489.69681  (13012508)              483587.50
3717987.50      503.04090  (13012508)
        483612.50   3717987.50      518.16498  (13012508)              484512.50
3717987.50      464.01642  (12012408)
        484537.50   3717987.50      430.08759  (14012208)              484562.50
3717987.50      413.47126  (14012208)
        484587.50   3717987.50      396.46842  (13020108)              484612.50
3717987.50      381.56554  (13020108)
        484637.50   3717987.50      365.16624  (13020108)              484662.50
3717987.50      351.81668  (13020108)
        484687.50   3717987.50      336.85857  (13020108)              484712.50
3717987.50      325.73612  (13020108)
        484737.50   3717987.50      314.37777  (13020108)              484762.50
3717987.50      302.65265  (13020108)
        484787.50   3717987.50      291.93355  (13020108)              484812.50
3717987.50      281.65652  (13020108)
        484837.50   3717987.50      272.01106  (13020108)              484862.50
3717987.50      262.80433  (13020108)
        483412.50   3718012.50      405.53679  (13012508)              483437.50
3718012.50      417.07027  (13012508)
        483462.50   3718012.50      432.09145  (13012508)              483487.50
3718012.50      442.54150  (13012508)
        483512.50   3718012.50      449.90731  (13012508)              483537.50
3718012.50      460.83898  (13012508)
        483562.50   3718012.50      475.24039  (13012508)              483587.50
3718012.50      488.50406  (13012508)
        483612.50   3718012.50      513.54746  (16010708)              483637.50
3718012.50      524.81669  (16010708)
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        484512.50   3718012.50      490.80519  (12012408)                484537.50
3718012.50      458.51612  (12012408)
        484562.50   3718012.50      425.70581  (12012408)                484587.50
3718012.50      394.09000  (13011108)
        484612.50   3718012.50      375.26013  (13011108)                484637.50
3718012.50      356.74421  (13011108)
        484662.50   3718012.50      343.16156  (13020108)                484687.50
3718012.50      331.94737  (13020108)
        484712.50   3718012.50      321.76502  (13020108)                484737.50
3718012.50      311.47584  (13020108)
♠ *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                         ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                   PAGE 698
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                   INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
        484762.50   3718012.50      301.25594  (13020108)                484787.50
3718012.50      291.24140  (13020108)
        484812.50   3718012.50      282.07852  (13020108)                484837.50
3718012.50      272.89233  (13020108)
        484862.50   3718012.50      264.43658  (13020108)                483412.50
3718037.50      405.39893  (13012508)
        483437.50   3718037.50      414.86468  (13012508)                483462.50
3718037.50      425.30154  (13012508)
        483487.50   3718037.50      432.28483  (13012508)                483512.50
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3718037.50      443.85624  (16010708)
        483537.50   3718037.50      454.62660  (16010708)              483562.50
3718037.50      472.64333  (16010708)
        483587.50   3718037.50      495.23582  (16010708)              483612.50
3718037.50      524.03677  (16010708)
        483637.50   3718037.50      540.28757  (16010708)              483662.50
3718037.50      559.57002  (16010708)
        484512.50   3718037.50      509.06888  (12012408)              484537.50
3718037.50      477.17074  (12012408)
        484562.50   3718037.50      445.09779  (12012408)              484587.50
3718037.50      413.35801  (12012408)
        484612.50   3718037.50      382.14965  (12012408)              484637.50
3718037.50      356.25618  (13011108)
        484662.50   3718037.50      340.75113  (13011108)              484687.50
3718037.50      329.35690  (13011108)
        484712.50   3718037.50      316.52566  (13011108)              484737.50
3718037.50      306.53575  (13011108)
        484762.50   3718037.50      295.11097  (13011108)              484787.50
3718037.50      286.41240  (13020108)
        484812.50   3718037.50      278.00272  (13020108)              484837.50
3718037.50      269.80825  (13020108)
        484862.50   3718037.50      261.76764  (13020108)              483412.50
3718062.50      396.33395  (16010708)
        483437.50   3718062.50      412.62651  (16010708)              483462.50
3718062.50      429.00694  (16010708)
        483487.50   3718062.50      444.44006  (16010708)              483512.50
3718062.50      456.06626  (16010708)
        483537.50   3718062.50      465.19993  (16010708)              483562.50
3718062.50      470.95232  (16010708)
        483587.50   3718062.50      499.00822  (16010708)              483612.50
3718062.50      518.24350  (16010708)
        483637.50   3718062.50      540.95047  (16021808)              483662.50
3718062.50      598.61768  (16021808)
        484512.50   3718062.50      513.24318  (12012408)              484537.50
3718062.50      484.74775  (12012408)
        484562.50   3718062.50      454.73984  (12012408)              484587.50
3718062.50      422.33141  (12012408)
        484612.50   3718062.50      393.84229  (12012408)              484637.50
3718062.50      365.08471  (12012408)
        484662.50   3718062.50      341.24846  (12012408)              484687.50
3718062.50      322.18209  (13011108)
        483412.50   3718087.50      418.06731  (16010708)              483437.50
3718087.50      432.72236  (16010708)
        483462.50   3718087.50      442.14708  (16010708)              483487.50
3718087.50      450.95057  (16010708)
        483512.50   3718087.50      460.81221  (16010708)              483537.50
3718087.50      464.66340  (16010708)
        483562.50   3718087.50      472.19263  (16010708)              483587.50
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3718087.50      485.90893  (16010708)
        483612.50   3718087.50      524.28550  (16021808)                483637.50
3718087.50      578.53005  (16021808)
        483662.50   3718087.50      652.62112  (16021808)                484512.50
3718087.50      502.67650  (12012408)
        484537.50   3718087.50      478.43638  (12012408)                484562.50
3718087.50      453.62242  (12012408)
        484587.50   3718087.50      426.82118  (12012408)                484612.50
3718087.50      400.15542  (12012408)
        484637.50   3718087.50      373.71010  (12012408)                484662.50
3718087.50      348.78512  (12012408)
        484687.50   3718087.50      328.29444  (12012408)                483412.50
3718112.50      443.42439  (16010708)
        483437.50   3718112.50      447.80850  (16010708)                483462.50
3718112.50      443.79159  (16010708)
        483487.50   3718112.50      448.09364  (16010708)                483512.50
3718112.50      454.99902  (16010708)
        483537.50   3718112.50      460.15725  (16010708)                483562.50
3718112.50      476.86141  (16021808)
        483587.50   3718112.50      513.64324  (16021808)                483612.50
3718112.50      563.65905  (16021808)
        483637.50   3718112.50      621.83612  (16021808)                483662.50
3718112.50      687.10452  (16021808)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                          ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                         ***        09:53:15

                                    PAGE 699
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                    INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                              ** CONC OF PM_10    IN MICROGRAMS/M**3
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X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
483687.50	3718112.50	798.91523	(16021808)	484512.50	3718112.50	484.65746	(12012408)
484537.50	3718112.50	463.88601	(12012408)	484562.50	3718112.50	443.57091	(12012408)
484587.50	3718112.50	420.81893	(12012408)	484612.50	3718112.50	398.11993	(12012408)
484637.50	3718112.50	373.75134	(12012408)	484662.50	3718112.50	352.12090	(12012408)
484687.50	3718112.50	332.44477	(12012408)	483412.50	3718137.50	438.46624	(16010708)
483437.50	3718137.50	441.59870	(16010708)	483462.50	3718137.50	432.14006	(16010708)
483487.50	3718137.50	449.53770	(16021808)	483512.50	3718137.50	487.72072	(16021808)
483537.50	3718137.50	535.16299	(16021808)	483562.50	3718137.50	582.14025	(16021808)
483587.50	3718137.50	628.69079	(16021808)	483612.50	3718137.50	671.96228	(16021808)
483637.50	3718137.50	737.26668	(16021808)	483662.50	3718137.50	777.51218	(16021808)
483687.50	3718137.50	847.95654	(16021808)	484512.50	3718137.50	461.58195	(12012408)
484537.50	3718137.50	444.93302	(12012408)	484562.50	3718137.50	429.32071	(12012408)
484587.50	3718137.50	412.58605	(12012408)	484612.50	3718137.50	391.99072	(12012408)
484637.50	3718137.50	370.85468	(12012408)	484662.50	3718137.50	352.22271	(12012408)
484687.50	3718137.50	334.95543	(12012408)	483412.50	3718162.50	415.54481	(16010708)
483437.50	3718162.50	440.51142	(16021808)	483462.50	3718162.50	477.80048	(16021808)
483487.50	3718162.50	512.26677	(16021808)	483512.50	3718162.50	550.63312	(16021808)
483537.50	3718162.50	595.34889	(16021808)	483562.50	3718162.50	662.00628	(16021808)
483587.50	3718162.50	722.57427	(16021808)	483612.50	3718162.50	774.77148	(16021808)
483637.50	3718162.50	805.61864	(16021808)	483662.50	3718162.50	847.74465	(16021808)
483687.50	3718162.50	883.98896	(16021808)	484512.50	3718162.50	432.12547	(12012408)
484537.50	3718162.50	422.71540	(12012408)	484562.50	3718162.50	409.59018	(12012408)

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        484587.50   3718162.50      396.13184  (12012408)                484612.50
3718162.50      380.59012  (12012408)
        484637.50   3718162.50      364.40995  (12012408)                484662.50
3718162.50      348.81557  (12012408)
        484687.50   3718162.50      334.41511  (12012408)                484712.50
3718162.50      319.95082  (12012408)
        484737.50   3718162.50      306.60867  (12012408)                484762.50
3718162.50      293.02601  (12012408)
        484787.50   3718162.50      279.58693  (12012408)                484812.50
3718162.50      267.32535  (12012408)
        484837.50   3718162.50      254.73910  (12012408)                484862.50
3718162.50      241.99691  (12012408)
        483412.50   3718187.50      448.49669  (16021808)                483437.50
3718187.50      492.94160  (16021808)
        483462.50   3718187.50      529.45644  (16021808)                483487.50
3718187.50      556.86995  (16021808)
        483512.50   3718187.50      596.27151  (16021808)                483537.50
3718187.50      625.48071  (16021808)
        483562.50   3718187.50      689.21103  (16021808)                484512.50
3718187.50      431.44891  (12121316)
        484537.50   3718187.50      394.58871  (12121316)                484562.50
3718187.50      387.04133  (12012408)
        484587.50   3718187.50      378.44039  (12012408)                484612.50
3718187.50      366.40740  (12012408)
        484637.50   3718187.50      354.10942  (12012408)                484662.50
3718187.50      340.86403  (12012408)
        484687.50   3718187.50      328.78294  (12012408)                484712.50
3718187.50      316.94083  (12012408)
        484737.50   3718187.50      304.55285  (12012408)                484762.50
3718187.50      292.47343  (12012408)
        484787.50   3718187.50      280.72452  (12012408)                484812.50
3718187.50      268.92806  (12012408)
        484837.50   3718187.50      257.11846  (12012408)                484862.50
3718187.50      247.78275  (12012408)
        484162.50   3718212.50      622.16864  (14021908)                484187.50
3718212.50      649.66430  (12121416)
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                   PAGE 700
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                   INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
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L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
484212.50	3718212.50	697.30050	(12121416)	484512.50	3718212.50	439.23202	(12121316)
484537.50	3718212.50	406.24924	(12121316)	484562.50	3718212.50	374.52752	(12121316)
484587.50	3718212.50	355.89238	(12012408)	484612.50	3718212.50	348.37382	(12012408)
484637.50	3718212.50	338.91002	(12012408)	484662.50	3718212.50	329.09304	(12012408)
484687.50	3718212.50	319.39363	(12012408)	484712.50	3718212.50	309.28722	(12012408)
484737.50	3718212.50	299.37440	(12012408)	484762.50	3718212.50	288.98323	(12012408)
484787.50	3718212.50	278.10450	(12012408)	484812.50	3718212.50	267.22289	(12012408)
484837.50	3718212.50	260.11339	(12012408)	484862.50	3718212.50	252.26936	(12012408)
484512.50	3718237.50	442.89905	(12121316)	484537.50	3718237.50	413.11019	(12121316)
484562.50	3718237.50	383.82547	(12121316)	484587.50	3718237.50	354.48519	(12121316)
484612.50	3718237.50	328.01840	(12012408)	484637.50	3718237.50	320.92095	(12012408)
484662.50	3718237.50	313.96661	(12012408)	484687.50	3718237.50	306.46705	(12012408)
484712.50	3718237.50	298.58538	(12012408)	484737.50	3718237.50	290.81557	(12012408)
484762.50	3718237.50	281.85389	(12012408)	484787.50	3718237.50	272.92136	(12012408)
484812.50	3718237.50	264.63515	(12012408)	484837.50	3718237.50	258.00046	(12012408)
484862.50	3718237.50	250.29684	(12012408)	483412.50			

```
3718262.50      539.92532  (13010408)
        483437.50   3718262.50      570.91112  (16021808)              484137.50
3718262.50      592.01823  (13010108)
        484162.50   3718262.50      550.40285  (14021908)              484212.50
3718262.50      549.14166  (12121416)
        484512.50   3718262.50      441.09896  (12121316)              484537.50
3718262.50      415.98690  (12121316)
        484562.50   3718262.50      389.34211  (12121316)              484587.50
3718262.50      362.35638  (12121316)
        484612.50   3718262.50      335.53861  (12121316)              484637.50
3718262.50      309.75059  (12121316)
        484662.50   3718262.50      296.43776  (12012408)              484687.50
3718262.50      289.95910  (12012408)
        484712.50   3718262.50      284.93101  (12012408)              484737.50
3718262.50      279.24885  (12012408)
        484762.50   3718262.50      272.87659  (12012408)              484787.50
3718262.50      265.77700  (15121108)
        484812.50   3718262.50      260.19915  (15121108)              484837.50
3718262.50      254.34776  (15121108)
        484862.50   3718262.50      248.12687  (15121108)              483412.50
3718287.50      550.41433  (14121708)
        483437.50   3718287.50      591.69379  (14121708)              484212.50
3718287.50      528.18447  (14021908)
        484512.50   3718287.50      434.43028  (12121316)              484537.50
3718287.50      413.88109  (12121316)
        484562.50   3718287.50      389.93860  (12121316)              484587.50
3718287.50      365.69205  (12121316)
        484612.50   3718287.50      341.21517  (12121316)              484637.50
3718287.50      317.20166  (12121316)
        484662.50   3718287.50      293.90748  (12121316)              484687.50
3718287.50      272.30573  (12012408)
        484712.50   3718287.50      268.37853  (12012408)              484737.50
3718287.50      265.16296  (15121108)
        484762.50   3718287.50      261.84690  (15121108)              484787.50
3718287.50      257.72284  (15121108)
        484812.50   3718287.50      252.84983  (15121108)              484837.50
3718287.50      248.24583  (15121108)
        484862.50   3718287.50      243.61150  (15121108)              483412.50
3718312.50      595.10989  (14121708)
        483437.50   3718312.50      627.90725  (14121708)              484187.50
3718312.50      506.92438  (14021908)
        483412.50   3718337.50      604.87431  (14121708)              483437.50
3718337.50      617.62264  (14121708)
        484187.50   3718337.50      482.90946  (14021908)              483412.50
3718412.50      585.15874  (12121808)
        483437.50   3718412.50      598.44087  (12121808)              483412.50
3718437.50      562.08931  (12121808)
        483437.50   3718437.50      579.56382  (13020608)              484462.50
```

3718462.50   375.55750 (12121416)

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                    INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                  L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                  L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                  L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        484487.50   3718462.50   369.37420 (12121416)   484462.50
3718487.50   349.49715 (12121416)
        484487.50   3718487.50   348.65737 (12121416)

                                          *** THE SUMMARY OF MAXIMUM PERIOD (43848
HRS) RESULTS ***

                                       ** CONC OF PM_10   IN MICROGRAMS/M**3
               **

GROUP ID	NETWORK	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID
EQUIP	1ST HIGHEST VALUE IS	8.20976 AT	(484012.50, 3717562.50, 463.83, 607.10, 0.00)	DC	
	2ND HIGHEST VALUE IS	8.03514 AT	(483987.50, 3717562.50, 463.71, 607.10, 0.00)	DC	
	3RD HIGHEST VALUE IS	7.90788 AT	(484037.50, 3717562.50, 464.16, 607.10, 0.00)	DC	
	4TH HIGHEST VALUE IS	7.44346 AT	(483962.50, 3717562.50, 464.37, 607.10, 0.00)	DC	
	5TH HIGHEST VALUE IS	7.26801 AT	(484062.50, 3717562.50, 464.80, 607.10, 0.00)	DC	
	6TH HIGHEST VALUE IS	6.56867 AT	(483937.50, 3717562.50, 464.68, 607.10, 0.00)	DC	
	7TH HIGHEST VALUE IS	6.54357 AT	(484050.00, 3717550.00, 463.62, 607.10, 0.00)	DC	
	8TH HIGHEST VALUE IS	6.02390 AT	(483950.00, 3717550.00, 463.69, 607.10, 0.00)	DC	
	9TH HIGHEST VALUE IS	5.91148 AT	(484012.50, 3717537.50, 462.36, 607.10, 0.00)	DC	
	10TH HIGHEST VALUE IS	5.81201 AT	(484037.50, 3717537.50, 462.77, 607.10, 0.00)	DC	
GEN1	1ST HIGHEST VALUE IS	1.73920 AT	(484212.50, 3718212.50, 469.71, 607.10, 0.00)	DC	
	2ND HIGHEST VALUE IS	1.73013 AT	(484187.50, 3718212.50, 470.18, 607.10, 0.00)	DC	
	3RD HIGHEST VALUE IS	1.71072 AT	(484162.50, 3718212.50, 470.61, 607.10, 0.00)	DC	
	4TH HIGHEST VALUE IS	1.62848 AT	(484062.50, 3717562.50, 464.80, 607.10, 0.00)	DC	
	5TH HIGHEST VALUE IS	1.59730 AT	(484037.50, 3717562.50, 464.16, 607.10, 0.00)	DC	
	6TH HIGHEST VALUE IS	1.55517 AT	(484012.50, 3717562.50, 463.83, 607.10, 0.00)	DC	
	7TH HIGHEST VALUE IS	1.50937 AT	(484050.00, 3717550.00, 463.62, 607.10, 0.00)	DC	
	8TH HIGHEST VALUE IS	1.50236 AT	(483987.50, 3717562.50, 463.71, 607.10, 0.00)	DC	
	9TH HIGHEST VALUE IS	1.44532 AT	(483962.50, 3717562.50, 464.37, 607.10, 0.00)	DC	
	10TH HIGHEST VALUE IS	1.42527 AT	(484062.50, 3717537.50, 462.99,		

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  607.10,    0.00)  DC

GEN2      1ST HIGHEST VALUE IS       2.25473 AT (  484062.50,  3717562.50,   464.80,
  607.10,    0.00)  DC
          2ND HIGHEST VALUE IS       2.20789 AT (  484037.50,  3717562.50,   464.16,
  607.10,    0.00)  DC
          3RD HIGHEST VALUE IS       2.14173 AT (  484012.50,  3717562.50,   463.83,
  607.10,    0.00)  DC
          4TH HIGHEST VALUE IS       2.07096 AT (  484050.00,  3717550.00,   463.62,
  607.10,    0.00)  DC
          5TH HIGHEST VALUE IS       2.05766 AT (  483987.50,  3717562.50,   463.71,
  607.10,    0.00)  DC
          6TH HIGHEST VALUE IS       1.96663 AT (  483962.50,  3717562.50,   464.37,
  607.10,    0.00)  DC
          7TH HIGHEST VALUE IS       1.94068 AT (  484062.50,  3717537.50,   462.99,
  607.10,    0.00)  DC
          8TH HIGHEST VALUE IS       1.90815 AT (  484037.50,  3717537.50,   462.77,
  607.10,    0.00)  DC
          9TH HIGHEST VALUE IS       1.85936 AT (  483937.50,  3717562.50,   464.68,
  607.10,    0.00)  DC
         10TH HIGHEST VALUE IS       1.85562 AT (  484012.50,  3717537.50,   462.36,
  607.10,    0.00)  DC

GEN3      1ST HIGHEST VALUE IS       1.67156 AT (  484062.50,  3717562.50,   464.80,
  607.10,    0.00)  DC
          2ND HIGHEST VALUE IS       1.64172 AT (  484037.50,  3717562.50,   464.16,
  607.10,    0.00)  DC
          3RD HIGHEST VALUE IS       1.63746 AT (  484212.50,  3718212.50,   469.71,
  607.10,    0.00)  DC
          4TH HIGHEST VALUE IS       1.62824 AT (  484187.50,  3718212.50,   470.18,
  607.10,    0.00)  DC
          5TH HIGHEST VALUE IS       1.60984 AT (  484162.50,  3718212.50,   470.61,
  607.10,    0.00)  DC
          6TH HIGHEST VALUE IS       1.59988 AT (  484012.50,  3717562.50,   463.83,
  607.10,    0.00)  DC
          7TH HIGHEST VALUE IS       1.54774 AT (  484050.00,  3717550.00,   463.62,
  607.10,    0.00)  DC
          8TH HIGHEST VALUE IS       1.54618 AT (  483987.50,  3717562.50,   463.71,
  607.10,    0.00)  DC
          9TH HIGHEST VALUE IS       1.48736 AT (  483962.50,  3717562.50,   464.37,
  607.10,    0.00)  DC
         10TH HIGHEST VALUE IS       1.45847 AT (  484062.50,  3717537.50,   462.99,
  607.10,    0.00)  DC
 *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                        ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (43848 HRS) RESULTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

GROUP ID	NETWORK	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID
GEN4	1ST HIGHEST VALUE IS	2.21872	AT (484062.50, 3717562.50, 464.80, 607.10, 0.00)	DC	
	2ND HIGHEST VALUE IS	2.20810	AT (484212.50, 3718212.50, 469.71, 607.10, 0.00)	DC	
	3RD HIGHEST VALUE IS	2.20794	AT (484187.50, 3718212.50, 470.18, 607.10, 0.00)	DC	
	4TH HIGHEST VALUE IS	2.19467	AT (484162.50, 3718212.50, 470.61, 607.10, 0.00)	DC	
	5TH HIGHEST VALUE IS	2.17354	AT (484037.50, 3717562.50, 464.16, 607.10, 0.00)	DC	
	6TH HIGHEST VALUE IS	2.11020	AT (484012.50, 3717562.50, 463.83, 607.10, 0.00)	DC	
	7TH HIGHEST VALUE IS	2.04180	AT (484050.00, 3717550.00, 463.62, 607.10, 0.00)	DC	
	8TH HIGHEST VALUE IS	2.03037	AT (483987.50, 3717562.50, 463.71, 607.10, 0.00)	DC	
	9TH HIGHEST VALUE IS	1.94374	AT (483962.50, 3717562.50, 464.37, 607.10, 0.00)	DC	
	10TH HIGHEST VALUE IS	1.91625	AT (484062.50, 3717537.50, 462.99, 607.10, 0.00)	DC	
TRUCKS	1ST HIGHEST VALUE IS	8.26281	AT (484012.50, 3717562.50, 463.83, 607.10, 0.00)	DC	
	2ND HIGHEST VALUE IS	8.09545	AT (483987.50, 3717562.50, 463.71, 607.10, 0.00)	DC	
	3RD HIGHEST VALUE IS	7.94568	AT (484037.50, 3717562.50, 464.16, 607.10, 0.00)	DC	
	4TH HIGHEST VALUE IS	7.49592	AT (483962.50, 3717562.50, 464.37, 607.10, 0.00)	DC	
	5TH HIGHEST VALUE IS	7.29137	AT (484062.50, 3717562.50, 464.80, 607.10, 0.00)	DC	

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         6TH HIGHEST VALUE IS       6.60922 AT (  483937.50,  3717562.50,   464.68,
  607.10,    0.00)  DC
         7TH HIGHEST VALUE IS       6.56655 AT (  484050.00,  3717550.00,   463.62,
  607.10,    0.00)  DC
         8TH HIGHEST VALUE IS       6.05999 AT (  483950.00,  3717550.00,   463.69,
  607.10,    0.00)  DC
         9TH HIGHEST VALUE IS       5.93851 AT (  484012.50,  3717537.50,   462.36,
  607.10,    0.00)  DC
        10TH HIGHEST VALUE IS       5.83229 AT (  484037.50,  3717537.50,   462.77,
  607.10,    0.00)  DC

ALL      1ST HIGHEST VALUE IS      23.87955 AT (  484012.50,  3717562.50,   463.83,
  607.10,    0.00)  DC
         2ND HIGHEST VALUE IS      23.47402 AT (  484037.50,  3717562.50,   464.16,
  607.10,    0.00)  DC
         3RD HIGHEST VALUE IS      23.26717 AT (  483987.50,  3717562.50,   463.71,
  607.10,    0.00)  DC
         4TH HIGHEST VALUE IS      22.33287 AT (  484062.50,  3717562.50,   464.80,
  607.10,    0.00)  DC
         5TH HIGHEST VALUE IS      21.78244 AT (  483962.50,  3717562.50,   464.37,
  607.10,    0.00)  DC
         6TH HIGHEST VALUE IS      20.28001 AT (  484050.00,  3717550.00,   463.62,
  607.10,    0.00)  DC
         7TH HIGHEST VALUE IS      19.67387 AT (  483937.50,  3717562.50,   464.68,
  607.10,    0.00)  DC
         8TH HIGHEST VALUE IS      18.34273 AT (  483950.00,  3717550.00,   463.69,
  607.10,    0.00)  DC
         9TH HIGHEST VALUE IS      18.31178 AT (  484012.50,  3717537.50,   462.36,
  607.10,    0.00)  DC
        10TH HIGHEST VALUE IS      18.27726 AT (  484037.50,  3717537.50,   462.77,
  607.10,    0.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
↑ *** AERMOD - VERSION  19191 ***   *** Curci Vineyard III Construction HRA
                         ***        04/16/20
 *** AERMET - VERSION  16216 ***   ***
                       ***        09:53:15

                                  PAGE 704
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                                  *** THE SUMMARY OF HIGHEST  1-HR
RESULTS ***
```

** CONC OF PM_10 IN MICROGRAMS/M**3
**

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
EQUIP	1ST HIGH VALUE IS	512.57004	ON 12110208: AT (484012.50, 3717562.50, 463.83, 607.10, 0.00)	DC	
GEN1	1ST HIGH VALUE IS	120.88951	ON 12020608: AT (484037.50, 3717562.50, 464.16, 607.10, 0.00)	DC	
GEN2	1ST HIGH VALUE IS	203.15018	ON 12020608: AT (484037.50, 3717562.50, 464.16, 607.10, 0.00)	DC	
GEN3	1ST HIGH VALUE IS	117.11816	ON 12122408: AT (483687.50, 3718162.50, 475.09, 646.91, 0.00)	DC	
GEN4	1ST HIGH VALUE IS	198.11231	ON 16021808: AT (483687.50, 3718162.50, 475.09, 646.91, 0.00)	DC	
TRUCKS	1ST HIGH VALUE IS	529.94723	ON 12110208: AT (484012.50, 3717562.50, 463.83, 607.10, 0.00)	DC	
ALL	1ST HIGH VALUE IS	1176.45818	ON 12110208: AT (484012.50, 3717562.50, 463.83, 607.10, 0.00)	DC	

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** Message Summary : AERMOD Model Execution ***

--------- Summary of Total Messages --------

```
A Total of            0 Fatal Error Message(s)
A Total of            4 Warning Message(s)
A Total of         1763 Informational Message(s)

A Total of        43848 Hours Were Processed

A Total of          884 Calm Hours Identified

A Total of          879 Missing Hours Identified (  2.00 Percent)


   ******** FATAL ERROR MESSAGES ********
              ***  NONE  ***


   ********   WARNING MESSAGES   ********
SO W320     785        PPARM: Input Parameter May Be Out-of-Range for Parameter
      VS
SO W320     787        PPARM: Input Parameter May Be Out-of-Range for Parameter
      VS
ME W186    8293       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
    0.50
ME W187    8293       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


   ***********************************
   *** AERMOD Finishes Successfully ***
   ***********************************
```

Appendix C

Biological Resources Report

3615 MAIN STREET, SUITE 103
RIVERSIDE, CALIFORNIA 92501

June 2, 2020 10773

Allan L. Davis
Retain Development Advisors, President
27890 Clinton Keith Road, D490
Murrieta, California 92562

Subject: Biological Resources Letter Report and MSHCP Consistency for the Vineyard III Retail Development Project, City of Murrieta, California

Dear Mr. Davis:

This biological resources habitat assessment and Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP) consistency analysis letter report describes the existing biological conditions of the proposed Vineyard III Retail Development Project (project) site, and provides an assessment of potential biological impacts. The proposed project and potential impacts to special-status biological resources are analyzed in the context of the California Environmental Quality Act (CEQA) and in the context of the MSHCP. This report describes the project site, the general biological reconnaissance survey conducted, any special-status biological resources present or potentially present on site, any potential constraints to development that may be posed by biological resources on the project site, and recommended mitigation. This report also covers an MSHCP consistency determination for the following requirements (relevant MSHCP sections are provided in parentheses):

- Riparian/Riverine, Vernal Pool, and Fairy Shrimp Requirements (Section 6.1.2)
- Species Survey Requirements (Sections 6.1.3 and 6.3.2)
- Urban/Wildlife interface Guidelines (Section 6.1.4)

1 Project Location

The 6.7-acre project site is located at the northeast corner of the Interstate 215 (I-215) and Clinton Keith Road, within the City of Murrieta in Riverside County (Figure 1, Project Location; all figures can be found in Attachment A). The project site occurs within the U.S. Geological Survey (USGS) 7.5-minute Murrieta quadrangle map, with the approximate center of the property at longitude 117°10'21.02"W and latitude 33°35'57.53"N.

The proposed project would involve construction of a retail development center with associated surface parking. Four retention basins, two at the northwest corners and two at the southwest corners of the project site, are included in the project design.

2 Methods

2.1 Literature Review

Special-status biological resources potentially present on the project site were identified through a literature search using the following sources: U.S. Fish and Wildlife Service's (USFWS) Critical Habitat and Occurrence Data (USFWS 2018); California Department of Fish and Wildlife's (CDFW) California Natural Diversity Database (CDFW 2018); the California Native Plant Society's (CNPS) online Inventory of Rare, Threatened, and Endangered Plants

(CNPS 2018); and the Calflora database, which compiles observation and plant data from both private and public institutions, including the Consortium of California herbaria (Calflora 2018). Searches were completed for the following U.S. Geological Survey quadrangles: Lake Elsinore, Romoland, Winchester, Wildomar, Murrieta, Bachelor Mountain, Fallbrook, Temecula, and Pechanga.

For this report, "special-status" species are those that are (1) listed, proposed for listing, or candidates for listing under the federal Endangered Species Act as threatened or endangered ("listed species"); (2) listed or candidates for listing under the California Endangered Species Act as threatened or endangered ("listed species"); (3) a state fully protected species; (4) a CDFW Species of Special Concern ("non-listed special status species"); or (5) a species listed on the CNPS Inventory of Rare and Endangered Plants with a California Rare Plant Rank of 1B or 2B ("non-listed special status species").

Special-status vegetation communities are those communities identified as high priority for inventory in the List of Vegetation Alliances and Associations (CDFW 2019) by a state rarity ranking of S1, S2, or S3.

2.2 Field Reconnaissance

Dudek biologist Anna Cassady conducted a general biological survey of the study area (project site and natural habitat within an associated 500-foot buffer) on January 4, 2018. The survey was conducted from 8:15 a.m. to 10:20 a.m. Weather conditions were favorable, with clear skies, wind speeds from 1 to 2 miles per hour, and temperature ranging from 53°F–64°F. All native and naturalized plant species encountered within the study area were identified and recorded. The potential for special-status plant and wildlife species to occur within the study area was evaluated based on the vegetation communities and soils present. Vegetation communities and land covers on site were mapped directly in the field. In addition, an investigation of presence and distribution of jurisdictional waters of the United States regulated by the U.S. Army Corps of Engineers (ACOE), jurisdictional waters of the state regulated by the Regional Water Quality Control Board (RWQCB), and jurisdictional streambed and associated riparian habitat regulated by CDFW was conducted.

Latin and common names for plant species with a California Rare Plant Rank follow the CNPS Inventory of Rare and Endangered Plants (CNPS 2018). For plant species without a California Rare Plant Rank, Latin names follow the Jepson Interchange List of Currently Accepted Names of Native and Naturalized Plants of California (Jepson Flora Project 2018) and common names follow the United States Department of Agriculture's Natural Resources Conservation Service Plants Database (USDA 2018a). Natural vegetation communities were mapped in the field using Vegetation Alliances of Western Riverside County (Klein and Evens 2006) with modifications to accommodate the lack of conformity of the observed communities to those included in these references. Latin and common names of animals follow Crother (2012) for reptiles and amphibians, and the American Ornithologists' Union for birds (AOU 2015).

To meet requirements in the MSHCP, a habitat assessment was conducted to identify suitable habitat for burrowing owl (*Athene cunicularia*) within the project site and a 500-foot buffer. While the 500-foot buffer includes land west of I-215, this area was not included in the study area habitat assessment due to lack of direct or indirect impacts to land across the freeway. This assessment was conducted in accordance with the *Burrowing Owl Survey Instructions for the Western Riverside Multiple Species Habitat Conservation Plan Area* (RCA 2006). In addition, a habitat assessment was conducted to identify suitable habitat for Narrow Endemic Plant Species

Survey Area (NEPSSA) species. The project site is within Survey Area 4. These species include San Diego ambrosia (*Ambrosia pumila*), many-stemmed dudleya (*Dudleya multicaulis*), spreading navarretia (*Navarretia fossalis*), Wright's trichocoronis (*Trichocoronis wrightii* var. *wrightii*), California orcutt grass (*Orcuttia californica*) and munz's onion (*Allium munzii*).

The results of the reconnaissance survey were digitized using ArcGIS software.

3 Results

3.1 Site Description

The project site is characterized as a westward sloping, vacant site. Elevations range from approximately 1,530 to 1,560 feet above mean sea level. The surrounding area includes a former sand and gravel mass grading operation to the east and I-215 to the west and north. To the south is a residential subdivision and a school, south of which lies open space associated with the Hogback Hills. Representative photographs of the project site are included in Attachment B.

3.2 Soils

Four soil types are mapped on the project site: Cajalco fine sandy loam, Las Posas loam, Las Posas rocky loam, and Cieneba sandy loam (Figure 2, Soils).

- **Cajalco Series** consists of well drained, moderately permeable soils formed in alluvium from igneous rock. These soils are typically found in foothills and interior valleys (USDA 2020b). Within the study area, this soils series makes up the northern and western side.
- **Las Posas Series** consists of well drained, moderately deep soils formed from igneous rocks. These soils are typically found within mountainous uplands and foothills (USDA 2020b). Within the study area, this soil series makes up the southern and eastern side.
- **Cieneba Series** consists of excessively drained, very shallow and shallow soils formed from granitic rock. These soils are typically found on hills and mountains (USDA 2020b). Within the study area, this soil series makes up a small portion of the southern tip.

3.3 Vegetation Communities and Land Covers

Five vegetation communities and two non-natural land cover types were classified for the project site: chamise–black sage, chamise-California buckwheat, disturbed California buckwheat, non-native grassland, disturbed land, and developed land. Figure 3, Biological Resources Map, illustrates the distribution of vegetation communities and land covers and Table 1 provides a summary of each land cover's extent within the study area.

Table 1 Vegetation Communities and Land Covers within the Project Site and Natural Habitat within Associated 500-foot buffer (Study Area)

Vegetation Community/Land Cover	Acreage
Chamise – Black Sage	0.32
Chamise – California Buckwheat Association	0.94
Disturbed California Buckwheat	0.87
California Buckwheat	3.74
Non-Native Grassland	3.45
Disturbed Land	17.13
Developed Land	16.36
Total	42.81

* 42.81 acres represents the project parcel and natural habitat within a 500-foot buffer (i.e., the associated study area.) The proposed project includes the 6.7-acre project site.

3.3.1 Chamise – Black Sage

The chamise – black sage vegetation community is co-dominated by chamise (*Adenostoma fasciculatum*) and black sage (*Salvia mellifera*) with an intermittent to continuous canopy within the shrub layer. The shrub layer may occur in two separate strata: low shrubs at 0.5-2 meters tall and taller shrubs 1-5 meters tall (Klein and Evens 2006).

Within the study area, this vegetation community is located within the southern portion of the project site. It is comprised primarily of chamise and black sage, but also contains some California buckwheat (*Eriogonum fasciculatum*), as well as a sparse understory of non-native grasses.

3.3.2 Chamise–California Buckwheat Association

The chamise–California buckwheat vegetation association is either dominated or co-dominated by chamise and California buckwheat with a shrub layer of open to continuous canopy. The shrub layer may occur in two separate strata: low shrubs at 0–2 meters tall and taller shrubs 0.5–5 meters tall. Trees may occur at trace cover and the herbaceous layer typically remains open to intermittent cover (Klein and Evens 2006).

Within the study area, this association occurs within the northern portion of the project site and the very southern end of the project site. It is comprised primarily of chamise, but is also co-dominated by a continuous presence of California buckwheat. The herbaceous layer is comprised of non-native grasses.

3.3.3 California Buckwheat

The California buckwheat vegetation association is an open to continuous shrub layer where California buckwheat typically dominates. The shrub layer often occurs in two separate strata: low shrubs at 0–2 meters tall and tall shrubs at 1–5 meters tall. A variety of native or non-native species may make up the herb layer and emergent trees only infrequently occur (Klein and Evens 2006).

Within the study area, California buckwheat scrub is located in the northeastern portion of the study area on the eastern side of Antelope Road outside of the project site.

Within the study area and project site, a disturbed form of this association occurs on steep slopes on the west side of Antelope Road. Additionally, disturbed California buckwheat occurs along the southern slope of the project site north of Clinton Keith Road. The community on the west side of the road and southern boundary of the project site is also heavily incised and disturbed, likely due to the grading of Antelope Road. Scattered California buckwheat occurs along the slopes in addition to intermittent black sage. The herbaceous layer contains some non-native grasses, but is mostly comprised of bare ground.

3.3.4 Non-Native Grassland

As defined by Klein and Evens (2006), California annual grassland is usually dominated by annual grasses and herbs of various assortments that are in upland habitats. Specifically, red brome (*Bromus madritensis* ssp. *rubens*) or ripgut brome (*B. diandrus*) are abundant with other non-native and native species.

The majority of the site is non-native grassland comprised primarily of weedy species including, but not limited to, Brome species (*Bromus* sp.), short-podded mustard (*Hirschfeldia incana*), common Mediterranean grass (*Schismus barbatus*), dove weed (*Croton setiger*), prickly wild lettuce (*Lactuca serriola*), and common cryptantha (*Cryptantha intermedia*). A single blue elderberry (*Sambucus nigra* ssp. *caerulea*) is located on the southwestern side of the project site and several Peruvian peppertrees (*Schinus molle*) are clustered at the northwestern edge of the project site; however, neither of these trees warranted their own vegetation community due to the small scale of their cover.

3.3.5 Developed Land

Although not recognized by the Natural Communities List (CDFG 2010), "developed land" refers to areas that have been constructed on or disturbed so severely that native vegetation is no longer supported. Developed land includes areas with permanent or semi-permanent structures, pavement or hardscape, landscaped areas, and areas with a large amount of debris or other materials.

The portions of the study area mapped as developed include the associated roads, freeway, and surrounding residential development.

3.3.6 Disturbed Land

The classification of disturbed land is due to the predominance of bare ground and compacted soils with a sparse covering of non-native plant species, and other disturbance-tolerant plant species. Oberbauer et al. (2008) describes disturbed habitat as areas that have been physically disturbed by previous human activity and are no longer recognizable as a native or naturalized vegetation association but that continue to retain a soil substrate.

Within the study area, disturbed habitat lies on the eastern side of the project site in the form of a dirt access road. Within the study area, disturbed habitat lies west of the project site in the area between I-215 and Antelope Road. Disturbed habitat also lies in the eastern portion of the study area where mass grading operations previously occurred.

3.4 Floral Diversity

A total of 16 species of native or naturalized plants—10 native (63%) and 6 non-native (38%)—were recorded within the study area. This low plant diversity reflects the study area's disturbed environment and its proximity to adjacent developed areas. Plant species observed within the study area are listed in Attachment C.

3.5 Wildlife

A total of four bird species were detected within the study area: house finch (*Haemorhous mexicanus*), Anna's hummingbird (*Calypte anna*), Say's phoebe (*Sayornis saya*), and California towhee (*Melozone crissalis*). No active bird nests were observed within the study area during the reconnaissance survey; however, the vegetation throughout the project site could support nesting birds. No amphibian species were observed and none are expected to occur due to the lack of aquatic habitat. One reptile species was observed during the survey: western fence lizard (*Sceloporus occidentalis*). Scat from one mammal species was observed during the survey: coyote (*Canis latrans*). The low wildlife diversity reflects the relatively disturbed nature of the study area, as well as the lack of contiguous habitat. Wildlife species observed within the study area are listed in Attachment D.

3.6 Special-Status Plant Species

No plant species listed or proposed for listing as rare, threatened, or endangered by either CDFW or the USFWS were detected within the study area. No plant species considered sensitive by the CNPS were observed. The study area is not within Critical Habitat for any special-status plant species (USFWS 2020).

Based on the results of the literature review and database searches, 59 special-status plant species have been documented within the region. All of these species were evaluated for potential to occur within the study area. Criteria used include soils, current disturbance levels, vegetation communities present, elevation ranges, and previous known locations based on the CNDDB, CNPS, and CalFlora records. One species, intermediate mariposa lily (*Calochortus weedii* var. *intermedius*) was determined to have high potential to occur and is described further below. Two species, smooth tarplant (*Centromadia pungens* ssp. *laevis*) and Parry's spineflower (*Chorizanthe parryi* var. *parryi*) were determined to have moderate potential to occur and are described further below. The remaining species were determined to either have low potential to occur or were not expected within the study area. A list and determination of potential to occur for these species can be found in Attachment E.

3.6.1 Intermediate Mariposa Lily

Intermediate mariposa lily is a CRPR 1B.2 species, indicating that it is a rare, threatened, or endangered species within California with a moderate degree/immediacy of threat. It is a covered species under the MSHCP.

This species is a perennial, bulbiferous herb that typically occurs in rocky and/or calcerous soils at elevations between 340 and 2,805 feet above mean sea level. Characteristic vegetation associations include chaparral, coastal scrub, and valley and foothill grasslands.

Within the project site, there is high potential for this species to occur. The project site is within the appropriate elevation range, has rocky loam substrate, and contains chaparral and grassland vegetation communities. This species has been documented as occurring directly west of the project site and the I-215 interchange with Clinton Keith Road (CDFW 2018). This plant species was not observed within the study area; however, the reconnaissance survey was conducted outside of its blooming period.

3.6.2 Smooth Tarplant

Smooth tarplant is a CRPR 1B.1 species, indicating that it is a rare, threatened, or endangered species within California with a high degree/immediacy of threat. It is a covered species under the MSHCP.

This species is an annual herb that typically occurs in alkaline soils at elevations between 0 and 2,100 feet above mean sea level. Characteristic vegetation associations include chenopod scrub, meadows and seeps, playas, riparian woodland, and valley and foothill grassland.

Within the project site, there is moderate potential for this species to occur. The project site contains suitable grassland habitat for this species and is within the appropriate elevation range. Additionally, smooth tarplant is known to occur in disturbed habitat. According to Calflora, numerous collections of smooth tarplant have been made around Murrieta and near the study area (Calflora 2018). This plant species was not observed within the study area; however, the reconnaissance survey was conducted outside of its blooming period.

3.6.3 Parry's Spineflower

Parry's spineflower is a CRPR 1B.1 species, indicating that it is a rare, threatened, or endangered species within California with a high degree/immediacy of threat. Parry's spineflower was conditionally covered under the MSHCP; however, as of 2018 MSHCP Annual Report, this species has had its conservation objectives met, as listed in Table 9-2 of the MSHCP. Parry's spineflower is now considered a fully covered species under the MSHCP (RCA 2018).

This species is an annual herb that typically occurs in sandy or rocky soils at elevations between 900 and 4,005 feet above mean sea level. Characteristic vegetation associations include chaparral, cismontane woodland, coastal scrub, and valley and foothill grassland.

Within the project site, there is moderate potential for this species to occur. The project site is within the appropriate elevation range and supports chaparral and grassland vegetation communities. The survey area also consists of the appropriate sandy soils. This species withstands disturbance like that seen within the study area. According to Calflora, Parry's spineflower is most likely to occur in western Riverside County and populations are documented near the study area (Calflora 2018). This plant species was not observed within the study area; however, the reconnaissance survey was conducted outside of its blooming period.

3.7 Special-Status Wildlife Species

No wildlife species listed or proposed for listing as rare, threatened, or endangered by either CDFW or the USFWS were detected within the study area. The study area is not within Critical Habitat for any special-status plant species (USFWS 2018)

Attachment F lists 43 special-status wildlife species that are known to occur in the USGS 7.5-minute Murrieta quadrangle and the eight surrounding quadrangles (CDFW 2018). For each species listed, a determination was made regarding potential use of the study area by the species based on information gathered during the field reconnaissance, known habitat preferences, and knowledge of the species' relative distributions in the area.

Four special-status wildlife species, red diamond rattlesnake (*Crotalus ruber*), coast patch-nosed snake (*Salvadora hexalepis virgultea*), loggerhead shrike (*Lanius ludovicianus*) and San Diego black-tailed jackrabbit (*Lepus californicus bennettii*) were determined to have moderate potential to occur within the study area. The remainder of the species were determined to either have low potential to occur or were not expected at the study area. None of these species were observed within the study area during the reconnaissance survey.

3.7.1 Burrowing Owl Habitat Assessment

The proposed project is located within the MSHCP Burrowing Owl Habitat Assessment Area. In accordance with the MSHCP, a habitat assessment must be conducted for this species and focused surveys completed if suitable habitat is present.

The burrowing owl is a California Species of Special Concern. With a relatively wide-ranging distribution throughout the west, burrowing owl is considered to be a habitat generalist (Lantz et al. 2004). In California, burrowing owl is a yearlong resident of open, dry grassland and desert habitats, and in grass, forb, and open shrub stages of pinyon–juniper and ponderosa pine habitats (Zeiner et al. 1990). Preferred habitat is generally typified by short, sparse vegetation with few shrubs; level to gently sloping topography; and well-drained soils (Haug et al. 1993).

The presence of burrows is the most essential component of burrowing owl habitat, as they are required for nesting, roosting, cover, and caching prey. In California, western burrowing owl most commonly lives in burrows created by California ground squirrels (*Spermophilus (Otospermophilus) beecheyi*). Burrowing owl may occur in human-altered landscapes such as agricultural areas, ruderal grassy fields, vacant lots, and pastures if the vegetation structure is suitable (i.e., open and sparse), useable burrows are available, and foraging habitat is close (Gervais et al. 2008). Debris piles, riprap, culverts, and pipes can also be used for nesting and roosting.

The nearest documented occurrence of burrowing owl is approximately 2.7 miles southeast of the study area. This occurrence was documented in 2003 (CDFW 2018).

The project site contains chaparral and annual grassland throughout; however, no California ground squirrels or burrows 4 inches or greater in diameter were observed within the study area. One rock pile with marginal interstitial space was located on the northwestern side of the project site that could be used as a perching site for burrowing owl; however, no burrowing owl sign or burrows were observed within these features. This, in combination with the developed nature of the surrounding environment, makes the potential low for this species occurring.

3.8 Nesting Birds

The project site provides potential nesting habitat for commonly occurring birds such as Anna's hummingbird (*Calypte anna*) or house finches (*Haemorhous mexicanus*). The project site did not contain large trees suitable for raptor nesting. No nests were observed within the study area during the survey; however, the reconnaissance survey was conducted outside the nesting season for most species.

3.9 Jurisdictional Waters and Significant Drainage Courses

A concrete, roadside ditch is located along the northwestern boundary of the project site. This feature lies in a topographic low-point and appears to convey freeway runoff from the south which then sheetflows into an area just north of the project site. There is no further evidence of ponding or surface flows and runoff conveyed by this ditch is assumed to percolate or evaporate. This feature would not be considered jurisdictional by the ACOE, RWQCB or CDFW. Figure 3 illustrates the location of this roadside ditch.

No other potential jurisdictional features were observed within the study area.

3.10 Wildlife Corridors and Habitat Linkages

Wildlife corridors are linear features that connect large patches of natural open space and provide avenues for the migration of animals. Habitat linkages are small patches that join larger blocks of habitat and help reduce the adverse effects of habitat fragmentation; they may be continuous habitat or discrete habitat islands that function as stepping stones for wildlife dispersal. Wildlife movement through the project site is unlikely due to the developed nature of the surrounding area. A former sand and gravel operation existed to the east, I-215 lies to the west and north, and a small subdivision and school exists to the south. Therefore, the study area has limited to no value as a potential wildlife corridor or habitat linkage.

4 Western Riverside County MSHCP Consistency Analysis

The project site is located in the MSHCP Southwest Area Plan and is not within an MSHCP Criteria Cell (Figure 4, Western Riverside County MSHCP). Therefore, no Reserve Assembly requirements would apply to the project site. The project's compliance with the relevant sections of the MSHCP is discussed below.

4.1 MSHCP Section 6.1.2 Riparian/Riverine Resources

The MSHCP defines riparian/riverine areas as "lands which contain habitat dominated by trees, shrubs, persistent emergent, or emergent mosses and lichens, which occur close to or which depend upon soil moisture from a nearby fresh water source; or areas with fresh water flow during all or a portion of the year." The MSHCP further clarifies those areas "demonstrating characteristics as described above which are artificially created are not included in these definitions" (County of Riverside 2003).

The study area contains an un-vegetated roadside ditch on the northwestern side of the project site that appears to be used to manage road runoff associated with I-215. The majority of the ditch is concrete lined and runoff conveyed by the ditch sheetflows and dissipates into undeveloped areas within the study area. This feature is artificially created, does not rely on a fresh water source, and does not convey flows to downstream riverine resources; therefore, it is not a riverine resource as defined by the MSHCP.

A storm drain inlet is located at the southern end of the project site at the southern terminus of Antelope Road. This storm drain appears to drain runoff from the associated roadways into underground pipes that travel east into residential development on the other east side of the former mass grading area (Smith 2019). The project site does not contain riparian or riverine features that lead to the storm drain.

The project site does not contain riparian vegetation and therefore does not contain habitat for riparian bird species.

4.1.1 Vernal Pool and Fairy Shrimp Habitat

No indicators of ponding were observed during the site visit. No topographic low points or indicators of ponding were observed within the study area and are not present on historic aerials or topographic maps. The project site does not contain clay soils, bedrock, or other poorly drained soils typically associated with vernal pools. Furthermore, upon surveying, there are no areas that would likely hold water for an extended amount of time, and therefore the site does not support any vernal pools or other potential fairy shrimp habitat.

4.2 MSHCP Section 6.1.3 Narrow Endemic Plant Species Survey Area

The proposed project is located within the Narrow Endemic Plant Species Survey Area 4. In accordance with the MSHCP, a habitat assessment must be conducted for these species and focused surveys completed if suitable habitat is present. The target narrow endemic plants are San Diego ambrosia, many-stemmed dudleya, spreading navarretia, Wright's trichocoronis, California orcutt grass and munz's onion. Details regarding the habitat requirements for each of these is provided in Attachment E.

San Diego ambrosia, spreading navarretia, California orcutt grass, and Wright's trichocoronis are not expected to occur within the study area. These species are commonly found in association with vernal pools and an evaluation of the study area did not yield conditions suitable for vernal pools (see further discussion on vernal pools below in Section 4.1.1).

Munz's onion and many-stemmed dudleya are also not expected to occur within the study area as the study area lacks clay soils with which these species are associated. Because the habitat assessment for narrow endemic plant species did not identify habitat characteristics associated with these species, focused rare plant surveys are not required

4.3 MSHCP Section 6.3.2 Criteria Area Species Survey Area

The MSHCP establishes habitat assessment requirements for certain species of plants, birds, mammals, and amphibians. The project site is in a required habitat assessment area for burrowing owl. As discussed in Section

3.7, Special-Status Wildlife Species, of this report, the habitat assessment did not identify potential burrowing owl habitat or suitable burrows features; therefore, focused surveys are not required.

4.4 MSHCP Section 6.1.4 Urban/Wildlife Interface Guidelines

According to the MSHCP, the Urban/Wildlands Interface Guidelines are intended to address indirect effects associated with locating development in proximity to the MSHCP Conservation Area (MSHCP, p. 6-42). The project site is not within or adjacent to any conserved areas (Figure 4) and the Urban/Wildlife Interface Guidelines are not applicable.

5 Impacts Analysis and Recommendations

This section addresses potential impacts to special-status biological resources that could result from implementation of the proposed project. This section follows the CEQA checklist for biological resources. For the purposes of this biological analysis, it is assumed that the entire project site would be permanently impacted (Figure 5, Impacts Map).

5.1 Sensitive Natural Communities

No sensitive natural communities occur on the project site; therefore, no potential impacts to sensitive natural communities would occur with project implementation. The following Table 2 lists impacts to the vegetation communities and land covers found on the Project site.

Table 2 Impacts to Vegetation Communities and Land Covers within the Project Site

Vegetation Community/Land Cover	Acreage
Non-Natural Land Covers	
Chamise – Black Sage	0.32
Chamise – California Buckwheat Association	0.94
Disturbed California Buckwheat	0.60
Non-Native Grassland	2.17
Disturbed Land	0.67
Developed Land	1.96
Total	**6.65**

5.2 Special-Status Plants

One special-status plant, intermediate mariposa lily, has high potential to occur on the project site and two special-status plants, smooth tarplant and Parry's spineflower, have moderate potential to occur within the project site. These species were not observed within the study area; however, the reconnaissance survey was conducted outside of its blooming period. Intermediate mariposa lily and smooth tarplant are both fully covered under the MSHCP. Parry's spineflower was conditionally covered under the MSHCP; however, as of 2018 MSHCP

Annual Report, this species has had its conservation objectives met, as listed in Table 9-2 of the MSHCP. Parry's spineflower is now considered a fully covered species under the MSHCP (RCA 2018). Given that all three species are fully covered under the MSHCP; therefore, with compliance with the MSHCP including payment of the MSHCP development mitigation fee, there would be no significant impacts to these species.

5.3 Special-Status Wildlife

Three special-status wildlife species, red diamondback rattlesnake, loggerhead shrike, and San Diego black-tailed jackrabbit, have moderate potential to occur on the project site and are covered under the MSHCP. Therefore, with compliance with the MSHCP including payment of the MSHCP development mitigation fee, there would be no significant impacts to these species.

One species, coast patch-nosed snake, has moderate potential to occur on the project site and is not covered under the MSHCP. This species was not observed within the study area. Although this species is not covered by the MSHCP, the MSHCP conserves habitat also suitable for this species. The removal of 1.86 acres of potentially suitable habitat for this species would be less than significant in the context of higher quality habitat conserved within the region. Individuals of this species, if present, would be able to move away during construction activities within the site. If some individuals were directly impacted during construction, this would be less than significant in the context of the regional population of this species.

5.3.1 Burrowing Owl

The burrowing owl habitat assessment did not yield suitable habitat, burrowing owl, or burrowing owl sign within the study area; therefore, focused surveys were not conducted. However, project site conditions could change between the time of the reconnaissance survey and the time of project implementation. If burrowing owl should occupy the site prior to initiation of construction activities, direct impacts to burrowing owl would be significant. Additionally, if burrowing owl occupy surrounding habitat within 500 feet of construction activities, indirect impacts could be significant. To avoid potential for significant impacts to burrowing owl during construction activities, a pre-construction burrowing owl survey should be conducted and avoidance measures implemented if burrowing owl are present (MM-BIO-1).

5.3.2 Nesting Birds

Project construction could result in direct and indirect impacts to nesting birds, including the loss of nests, eggs, and fledglings if vegetation clearing and ground-disturbing activities occur during the avian nesting season (typically March 1 through August 31). If the nesting bird season cannot be avoided, a nesting bird survey should be conducted and avoidance measures implemented if nests are documented within the impact footprint or within 300 feet of the impact footprint (MM-BIO-2).

5.4 Jurisdictional Waters

The proposed project site does not contain jurisdictional waters; therefore, the proposed project would not result in impacts to this resource.

5.5 Wildlife Corridors and Nursery Sites

The project site does not function as a wildlife corridor and does not support any wildlife nursery sites. As a result, implementation of the proposed project would not result in impacts to these resources.

5.6 Habitat Conservation Plans

The project site is within the MSHCP Plan Area. As described in Section 4, the project site does not support riparian/riverine resources, vernal pools or fairy shrimp habitat, narrow endemic plant habitat, or criteria area species habitat; therefore, there are no requirements under the MSHCP for these resources. The project is also not adjacent to conservation areas. The project does not support burrowing owl habitat; however, burrowing owl have the potential to occupy the site in the future. With implementation of the burrowing owl pre-construction surveys and implementation of avoidance and minimization measures if applicable, the project would be consistent with the MSHCP burrowing owl requirements. With implementation of mitigation measure MM-BIO-1, Burrowing Owl Pre-construction Surveys and payment of the MSHCP Development Mitigation Fee, the proposed project would be consistent with the MSHCP.

The project site is within the Stephens' Kangaroo Rat Habitat Conservation Plan boundary. With payment of the Stephens' Kangaroo Rat Habitat Conservation Plan Development Mitigation Fee, the proposed project would be consistent with the Stephens' Kangaroo Rat Habitat Conservation Plan.

5.7 Other Local Ordinances

The City of Murrieta Development Code, Article III, Section 16.42, Tree Preservation, identifies the following as protected trees:

- Mature Native Oak Tree;
- Mature Native Tree;
- Mature Tree;
- Historically Significant Trees;
- Any tree required to be planted or preserved as environmental mitigation, or condition of approval for a discretionary permit.

There are no resources on the project site that meet the above criteria; therefore, a tree removal permit in accordance with the City of Murrieta Development Code is not required. There are no other local ordinances applicable to the project.

6 Avoidance, Minimization and Mitigation Measures

The following measures are recommended to avoid, minimize and/or mitigate for impacts to special-status resources.

MM-BIO-1: Prior to initiation of construction activities, a burrowing owl pre-construction survey shall be conducted in accordance with the *Burrowing Owl Survey Instructions for the Western Riverside*

Multiple Species Habitat Conservation Plan Area (RCA 2006). In accordance with these instructions, this survey would occur within 30 days prior to ground-disturbance activities. A minimum of one survey site visit within the described time frame prior to disturbance is required to confirm presence or absence of owls on the site. Pre-construction surveys shall be conducted by a qualified biologist.

If surveys confirm occupied burrowing owl habitat is located within the impact footprint or within 500 feet of the impact footprint, avoidance measures shall be implemented consistent with the requirements of the MSHCP.

MM-BIO-2: To maintain compliance with the Migratory Bird Treaty Act and Fish and Game Code, if ground disturbance and/or vegetation clearance activities are scheduled to occur during the avian nesting season, a pre-construction nesting bird survey shall be conducted by a qualified biologist within the project footprint and a 300-foot buffer around the project footprint. Surveys shall be conducted within 3 days prior to initiation of activity and will be conducted between dawn and noon.

If an active nest is detected during the nesting bird survey, avoidance buffers shall be implemented as determined by a qualified biologist. The buffer will be of a distance to ensure avoidance of adverse effects to the nesting bird by accounting for topography, ambient conditions, species, nest location, and activity type. All nests will be monitored as determined by the qualified biologist until nestlings have fledged and dispersed or it is confirmed that the nest has been unsuccessful or abandoned.

6.1 Other Recommendations

In addition, Dudek recommends implementing the following measure to avoid and minimize potential environmental impacts resulting from the commercial construction:

- Avoid the use of any invasive, non-native plant species rated as “high” or “moderate” by the California Invasive Plant Council’s Invasive Plant Inventory (Cal-IPC 2020) for future landscaping of the site.

If you have any questions regarding the contents of this report, please either email acassady@dudek.com or call at 951.300.1088.

Sincerely,

Anna Cassady
Biologist

Att.: *Attachment A – Figures 1–5*
Attachment B – Site Photographs
Attachment C – Vascular Plant Species
Attachment D – Wildlife Species
Attachment E – Special-Status Plant Species Detected or Potentially Occurring in the Study Area
Attachment F – Special-Status Wildlife Species Detected or Potentially Occurring in the Study Area

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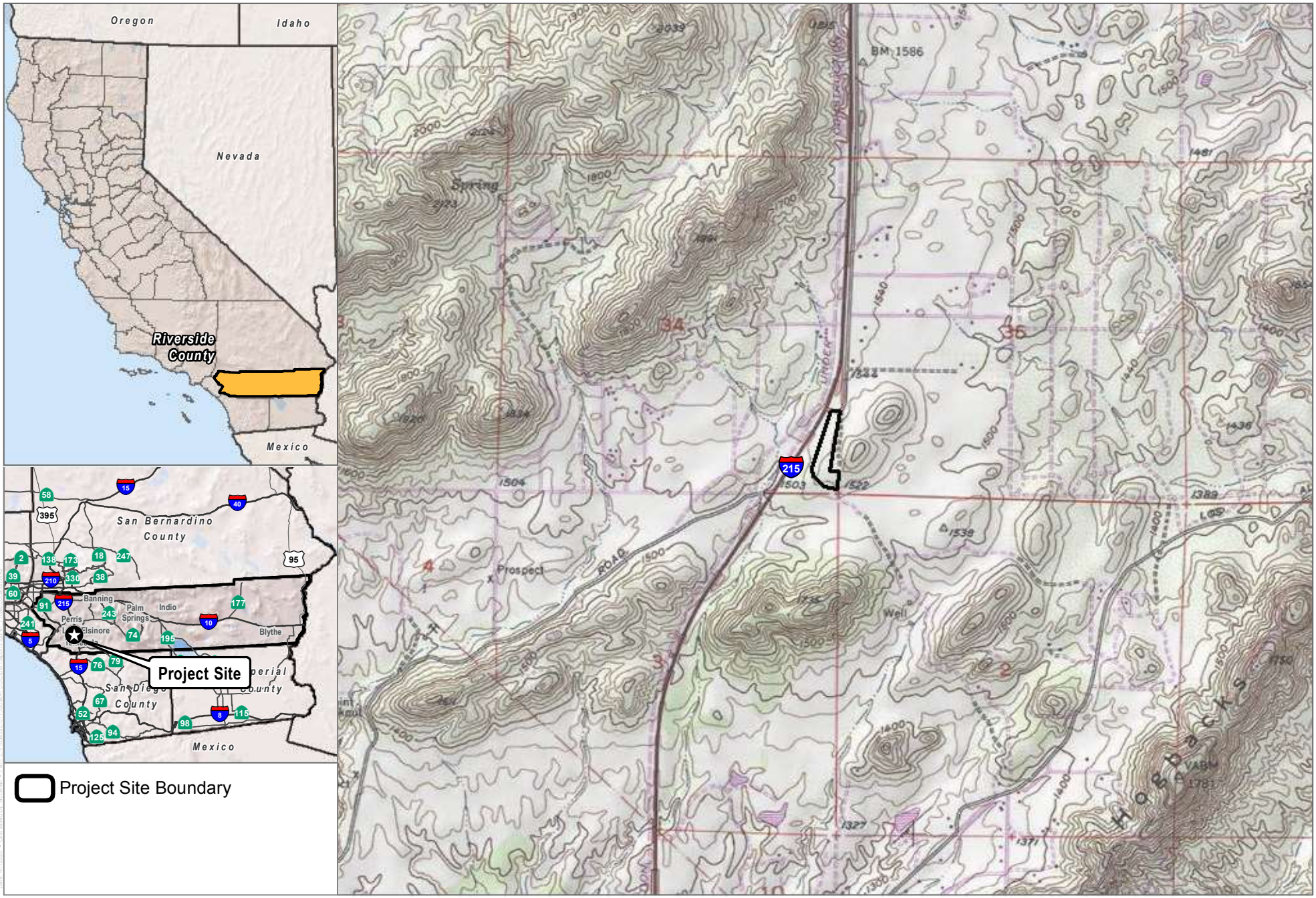
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Attachment A

Figures 1–5



SOURCE: USGS 7.5-Minute Series Murrieta Quadrangle

DUDEK

0 1,000 2,000 Feet

FIGURE 1

Project Location

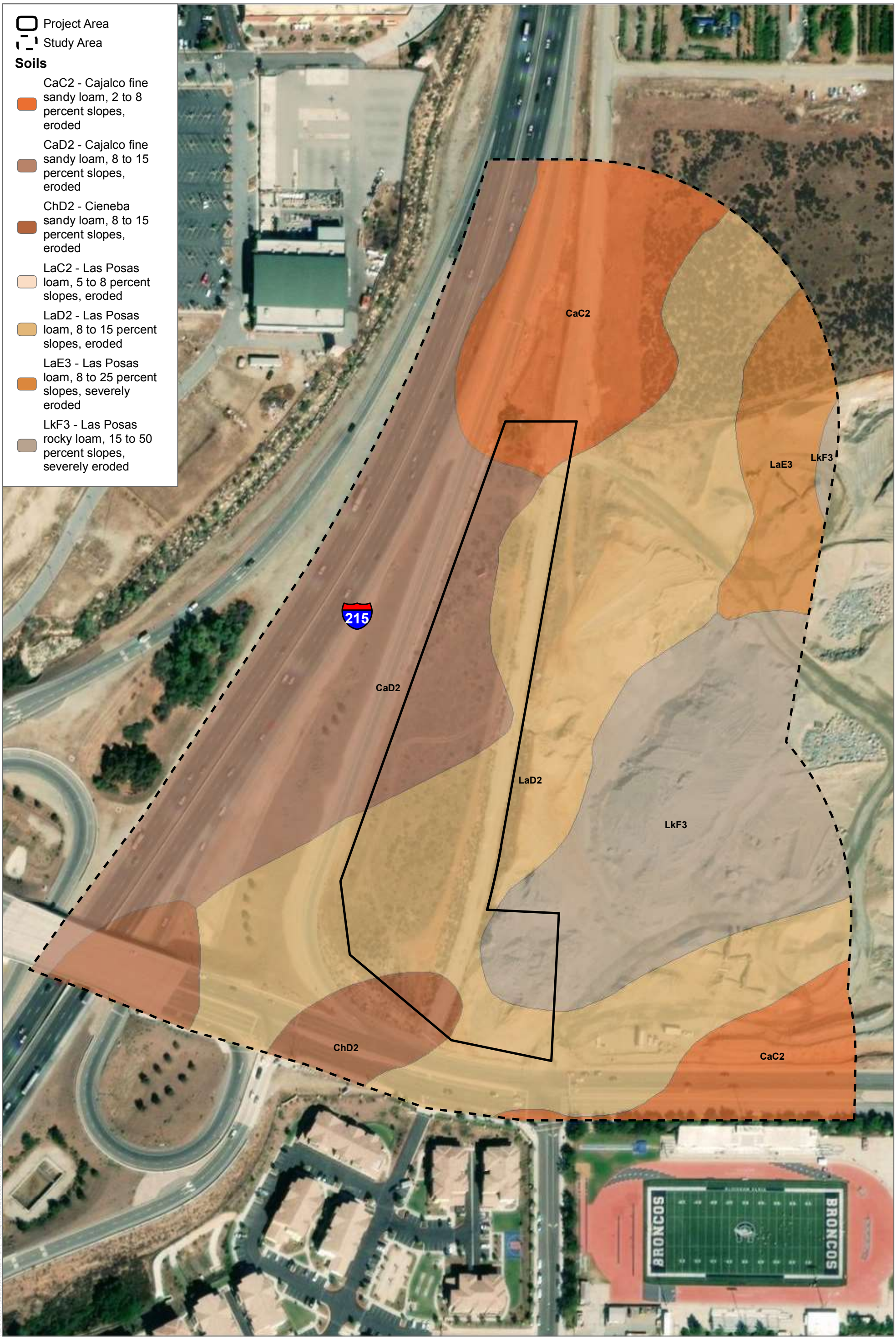
Biological Resources Letter Report and MSHCP Consistency for the Vineyards II Curci Project

Project Area

Study Area

Soils

- CaC2 - Cajalco fine sandy loam, 2 to 8 percent slopes, eroded
- CaD2 - Cajalco fine sandy loam, 8 to 15 percent slopes, eroded
- ChD2 - Cieneba sandy loam, 8 to 15 percent slopes, eroded
- LaC2 - Las Posas loam, 5 to 8 percent slopes, eroded
- LaD2 - Las Posas loam, 8 to 15 percent slopes, eroded
- LaE3 - Las Posas loam, 8 to 25 percent slopes, severely eroded
- LkF3 - Las Posas rocky loam, 15 to 50 percent slopes, severely eroded



SOURCE: DigitalGlobe 2018, USGS Soils

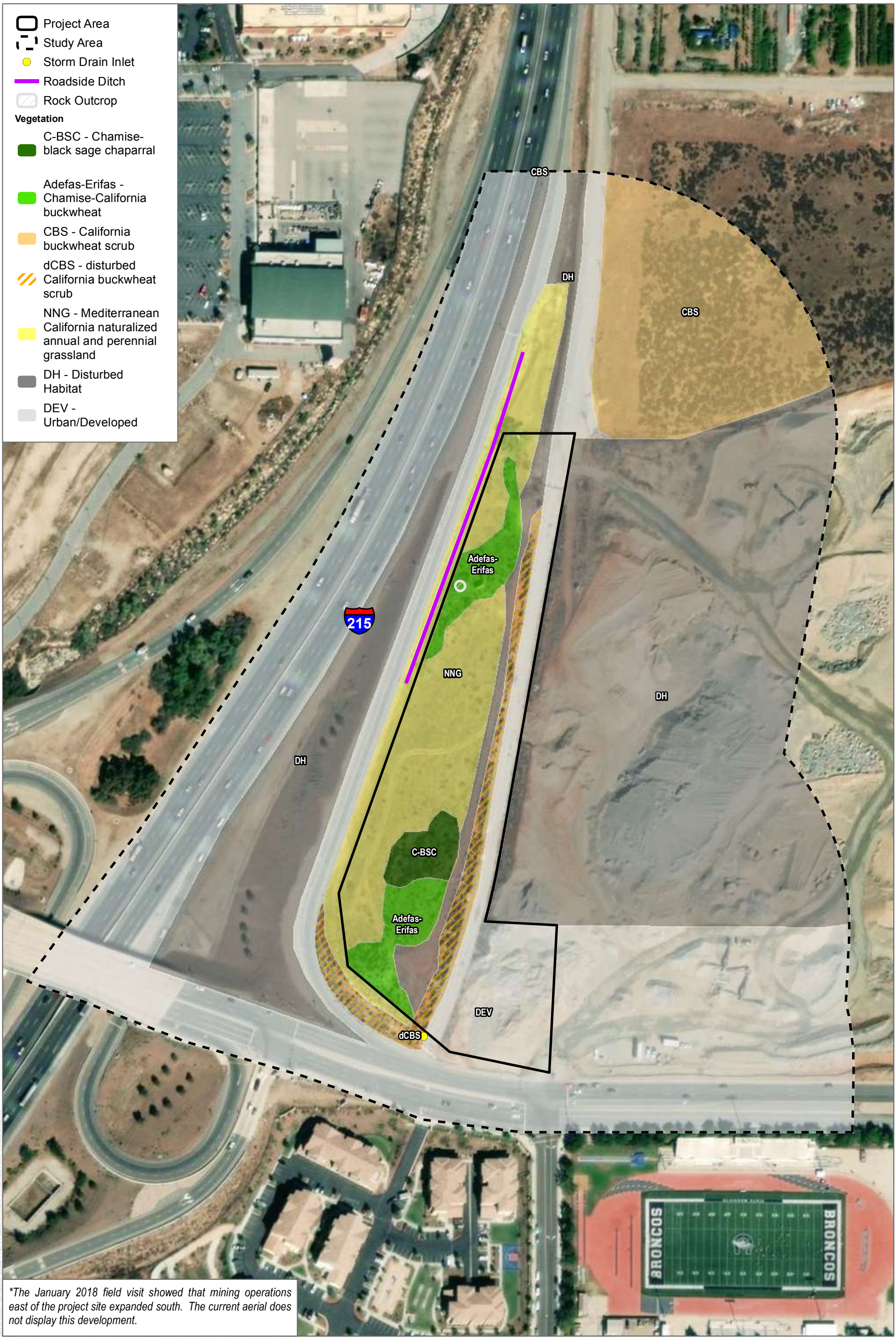
DUDEK

0 80 160 Feet

FIGURE 2

Soils Map

Biological Resources Letter Report and MSHCP Consistency for the Vineyards II Curci Project



The January 2018 field visit showed that mining operations east of the project site expanded south. The current aerial does not display this development.

SOURCE: DigitalGlobe 2018

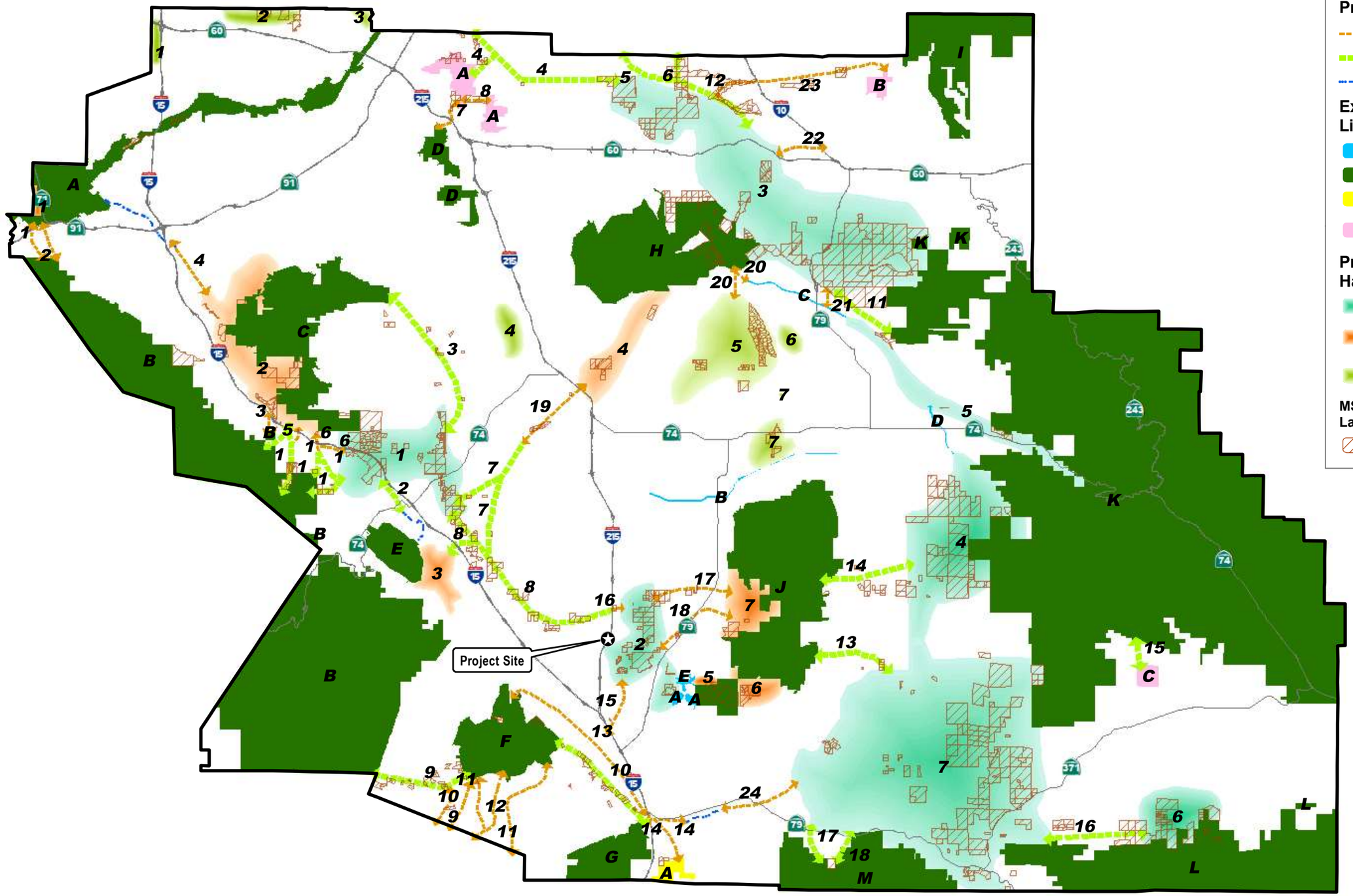
DUDEK

0 80 160 Feet

FIGURE 3

Biological Resources Map

Biological Resources Letter Report and MSHCP Consistency for the Vineyards II Curci Project



Proposed Linkages:
- Constrained Linkage
- Linkage
- Existing Channel

Existing Cores & Linkages:
- Constrained Linkage
- Core
- Linkage
- Noncontiguous Habitat Block

Proposed Cores & Habitat Blocks:
- Core
- Proposed Extension of Existing Cores
- Noncontiguous Habitat Block

MSHCP Conserved Lands
- Conserved Lands

SOURCE: SOURCE: Western Riverside County Regional Conservation Authority 2015; County of Riverside 2015

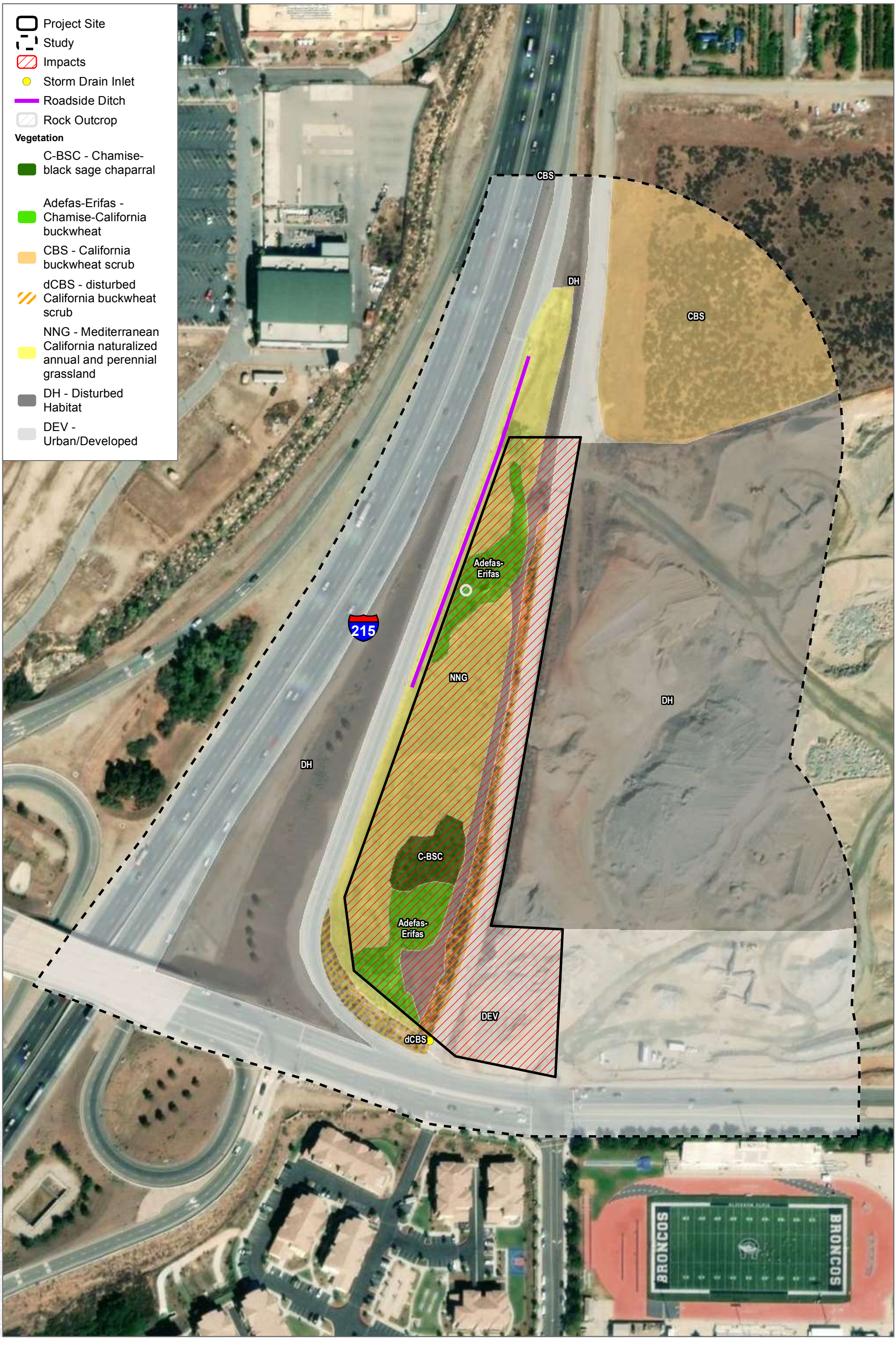
DUDEK

0 12,500 25,000 Feet

FIGURE 4

Western Riverside County MSHCP

Biological Resources Letter Report and MSHCP Consistency for the Vineyards II Curci Project



SOURCE: DigitalGlobe 2018

DUDEK

0 80 160 Feet

FIGURE 5

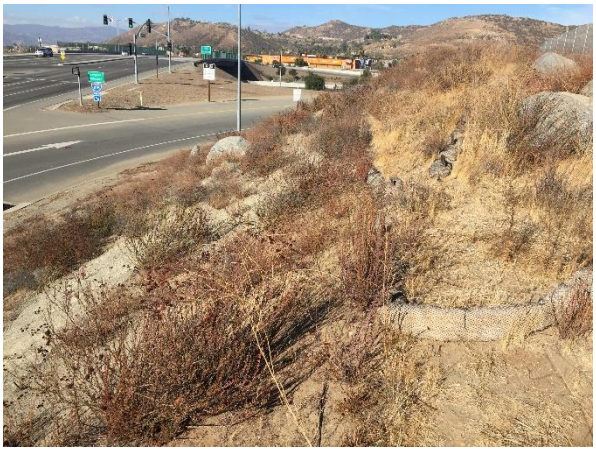
Impacts Map

Biological Resources Letter Report and MSHCP Consistency for the Vineyards II Curci Project

Attachment B

Site Photographs

	
Location 1: Non-native grasses with occasional scattered California buckwheat at northern end of project site, facing north.	**Location 2:** Non-native grasses with Chamise vegetation community and roadside ditch in background. Located along western edge of project site, facing south.
	
Location 3: Rock pile on northwestern side of project site.	**Location 4:** Chamise vegetation community on southern side of project site. Facing southwest.

	
Location 5: Chamise – California buckwheat association in center of project site with Highway 215 in the background. Facing northwest.	**Location 6:** Disturbed California buckwheat on southern slope of project site with Highway 215 on-ramp in background. Facing west.
	
Location 7: Antelope Road and disturbed California buckwheat scrub on slopes. Facing northeast.	**Location 8**: Natural basin north of the project site that captures runoff associated with Highway 215. Facing northwest.

Attachment C

Vascular Plant Species

VASCULAR SPECIES

MONOCOTS

POACEAE—GRASS FAMILY

* *Avena fatua*—wild oat
* *Bromus diandrus*—ripgut brome
* *Bromus madritensis*—compact brome
* *Schismus barbatus*—common Mediterranean grass

EUDICOTS

ADOXACEAE—MUSKROOT FAMILY

Sambucus nigra ssp. *caerulea*—blue elderberry

ANACARDIACEAE—SUMAC OR CASHEW FAMILY

* *Schinus molle*—Peruvian peppertree

ASTERACEAE—SUNFLOWER FAMILY

Acourtia microcephala—sacapellote
* *Centaurea melitensis*—Maltese star-thistle
Corethrogyne filaginifolia—common sandaster
Deinandra paniculata—paniculate tarplant
Gutierrezia californica—California match weed
Helianthus gracilentus—slender sunflower
* *Oncosiphon piluliferum*—stinknet
* *Lactuca serriola*—prickly lettuce
Encelia farinosa—brittle bush
Baccharis pilularis—coyote brush

BORAGINACEAE—BORAGE FAMILY

Amsinckia menziesii—Menzies' fiddleneck
Cryptantha intermedia—Clearwater cryptantha

BRASSICACEAE—MUSTARD FAMILY

* *Hirschfeldia incana*—shortpod mustard

EUPHORBIACEAE—SPURGE FAMILY

Croton setiger—dove weed

FABACEAE—LEGUME FAMILY

Acmispon americanus—Spanish clover

Acmispon glaber—deer weed

GERANIACEAE— GERANIUM FAMILY

* Erodium cicutarium—redstem stork's bill

LAMIACEAE—MINT FAMILY

Salvia mellifera—black sage

PLANTAGINACEAE—PLANTAIN FAMILY

Keckiella antirrhinoides—bush penstemon

POLYGONACEAE—BUCKWHEAT FAMILY

Eriogonum gracile—slender woolly buckwheat

Eriogonum fasciculatum—California buckwheat

ROSACEAE—ROSE FAMILY

Adenostoma fasciculatum—chamise

* signifies introduced (non-native) species

Attachment D

Wildlife Species

BIRD

EMBERIZINES

EMBERIZIDAE—EMBERIZIDS

Melozone crissalis—California towhee

FINCHES

FRINGILLIDAE—FRINGILLINE AND CARDUELINE FINCHES AND ALLIES

Haemorhous mexicanus—house finch

FLYCATCHERS

TYRANNIDAE—TYRANT FLYCATCHERS

Sayornis saya—Say's phoebe

HUMMINGBIRDS

TROCHILIDAE—HUMMINGBIRDS

Calypte anna—Anna's hummingbird

MAMMAL

CANIDS

CANIDAE—WOLVES AND FOXES

Canis latrans—coyote

REPTILE

LIZARDS

PHRYNOSOMATIDAE—IGUANID LIZARDS

Sceloporus occidentalis—western fence lizard

Attachment E

Special-Status Plant Species Detected or Potentially Occurring in the Study Area

Scientific Name	Common Name	Status (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur
Abronia villosa var. *aurita*	chaparral sand-verbena	None/None/1B.1	Chaparral, Coastal scrub, Desert dunes; sandy/annual herb/(Jan)Mar–Sep/245–5250	Low potential to occur. The project site contains suitable chaparral vegetation and is within the appropriate elevation range; however, the site consists of disturbed topsoil and numerous non-native weed species.
Allium munzii	Munz's onion	FE/ST/1B.1/ MSHCP NEPS	Chaparral, Cismontane woodland, Coastal scrub, Pinyon and juniper woodland, Valley and foothill grassland; mesic, clay/perennial bulbiferous herb/Mar–May/970–3510	Not expected to occur. The project site contains suitable chaparral vegetation and is within the appropriate elevation range; however, there are no clay soils.
Almutaster pauciflorus	alkali marsh aster	None/None/2B.2	Meadows and seeps; alkaline/perennial herb/June–Oct/785–2625	Not expected to occur. Although the project site is within the appropriate elevation range, there is no meadow and seep habitat that could support this species.
Ambrosia pumila	San Diego ambrosia	FE/None/1B.1/ MSHCP NEPS	Chaparral, Coastal scrub, Valley and foothill grassland, Vernal pools; sandy loam or clay, often in disturbed areas, sometimes alkaline/perennial rhizomatous herb/Apr–Oct/65–1360	Not expected to occur. Although the project site contains chaparral and grassland vegetation communities, it does not support vernal pool habitat. Additionally, the project site is outside of the known elevation range for this species. According to CalFlora, populations of San Diego ambrosia occur east of the 79 interstate and north of Lake Elsinore.
Arctostaphylos rainbowensis	Rainbow manzanita	None/None/1B.1	Chaparral/perennial evergreen shrub/Dec–Mar/670–2200	Not expected to occur. The reconnaissance survey was conducted during this species' blooming period and this perennial shrub would have likely been detected during the survey.

Scientific Name	Common Name	Status (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur
Astragalus pachypus var. *jaegeri*	Jaeger's bush milk-vetch	None/None/1B.1	Chaparral, Cismontane woodland, Coastal scrub, Valley and foothill grassland; sandy or rocky/perennial shrub/Dec–June/1195–3200	Not expected to occur. The reconnaissance survey was conducted during this species' blooming period and this perennial shrub would have likely been detected during the survey.
Atriplex coronata var. *notatior*	San Jacinto Valley crownscale	FE/None/1B.1	Playas, Valley and foothill grassland (mesic), Vernal pools; alkaline/annual herb/Apr–Aug/455–1640	Not expected to occur. The project site does not contain alkaline soils or support vernal pool habitat.
Atriplex pacifica	South Coast saltscale	None/None/1B.2	Coastal bluff scrub, Coastal dunes, Coastal scrub, Playas/annual herb/Mar–Oct/0–460	Not expected to occur. The project site is outside of the appropriate elevation range for this species and there is no coastal dune, coastal scrub, or playa habitat.
Atriplex parishii	Parish's brittlescale	None/None/1B.1	Chenopod scrub, Playas, Vernal pools; alkaline/annual herb/June–Oct/80–6235	Not expected to occur. The project site does not contain alkaline soils or support chenopod scrub, playa, or vernal pool habitat.
Atriplex serenana var. *davidsonii*	Davidson's saltscale	None/None/1B.2	Coastal bluff scrub, Coastal scrub; alkaline/annual herb/Apr–Oct/30–655	Not expected to occur. The project site is outside of the appropriate elevation range for this species, there are no alkaline soils, and there is no coastal dune, coastal scrub, or playa habitat.
Ayenia compacta	California ayenia	None/None/2B.3	Mojavean desert scrub, Sonoran desert scrub; rocky/perennial herb/Mar–Apr/490–3595	Not expected to occur. The project site does not contain desert scrub. The survey area contains disturbed topsoils and numerous non-native species. In addition, the project site is outside of the known geographic range of this species. According to CalFlora, populations of Californian ayenia generally occur east of Mt. San Jacinto.

Scientific Name	Common Name	Status (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur
Berberis nevinii	Nevin's barberry	FE/SE/1B.1	Chaparral, Cismontane woodland, Coastal scrub, Riparian scrub; sandy or gravelly/perennial evergreen shrub/(Feb)Mar–June/225–2705	Not expected to occur. Nevin's barberry is a perennial evergreen shrub that would have been detected during the reconnaissance survey. According to Calflora, Nevin's barberry generally occurs east of Temecula and north of the city of Riverside.
Brodiaea filifolia	thread-leaved brodiaea	FT/SE/1B.1	Chaparral (openings), Cismontane woodland, Coastal scrub, Playas, Valley and foothill grassland, Vernal pools; often clay/perennial bulbiferous herb/Mar–June/80–3675	Not expected to occur. The project site is within the appropriate elevation range and contains chaparral and grassland vegetation communities; however, there are no clay soils and the site is highly disturbed (disturbed topsoils and numerous non-native species).
Brodiaea orcuttii	Orcutt's brodiaea	None/None/1B.1	Closed-cone coniferous forest, Chaparral, Cismontane woodland, Meadows and seeps, Valley and foothill grassland, Vernal pools; mesic, clay/perennial bulbiferous herb/May–July/95–5550	Not expected to occur. The project site is within the appropriate elevation range and supports chaparral and grassland vegetation communities; however, there are no clay soils or vernal pool habitat.
Brodiaea santarosae	Santa Rosa Basalt brodiaea	None/None/1B.2	Valley and foothill grassland; basaltic/perennial bulbiferous herb/May–June/1850–3430	Not expected to occur. The project site is within the appropriate elevation range and supports a grassland vegetation community; however, Santa Rosa Basalt Brodiaea occurs in the Santa Ana Mountains in undisturbed areas. .
California macrophylla	round-leaved filaree	None/None/1B.2	Cismontane woodland, Valley and foothill grassland; clay/annual herb/Mar–May/45–3935	Not expected to occur. The project site is within the appropriate elevation range and supports a grassland vegetation community; however, there are no clay soils.

Scientific Name	Common Name	Status (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur
Calochortus weedii var. *intermedius*	intermediate mariposa lily	None/None/1B.2	Chaparral, Coastal scrub, Valley and foothill grassland; rocky, calcareous/perennial bulbiferous herb/May–July/340–2805	High potential to occur. The project site is within the appropriate elevation range, has rocky loam substrate, and contains chaparral and grassland vegetation communities. The species has been documented as occurring directly west of the project site at the Highway 215 interchange with Clinton Keith Road (CDFW 2018). This species was not observed within the study area; however, the reconnaissance survey was not conducted during the appropriate blooming period.
Ceanothus cyaneus	Lakeside ceanothus	None/None/1B.2	Closed-cone coniferous forest, Chaparral/perennial evergreen shrub/Apr–June/770–2475	Not expected to occur. The project site is within the appropriate elevation range and supports a chaparral vegetation community; however, this perennial evergreen shrub would have been detected during the reconnaissance survey. According to Calflora, the closest documented location of Lakeside ceanothus is on Mt. Palomar.
Ceanothus ophiochilus	Vail Lake ceanothus	FT/SE/1B.1	Chaparral (gabbroic or pyroxenite-rich outcrops)/perennial evergreen shrub/Feb–Mar/1900–3495	Not expected to occur. The project site is not within the appropriate elevation range for this species.
Centromadia pungens ssp. *laevis*	smooth tarplant	None/None/1B.1	Chenopod scrub, Meadows and seeps, Playas, Riparian woodland, Valley and foothill grassland; alkaline/annual herb/Apr–Sep/0–2100	Moderate potential to occur. Smooth tarplant thrives on disturbance like most tarplants. The project site contains suitable grassland habitat for this species. According to Calflora, numerous collections of smooth tarplant have been collected around Murrieta and near the survey area. This species was not observed within the study area; however, the reconnaissance survey was not conducted during the appropriate blooming period.

Scientific Name	Common Name	Status (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur
Chaenactis glabriuscula var. *orcuttiana*	Orcutt's pincushion	None/None/1B.1	Coastal bluff scrub (sandy), Coastal dunes/annual herb/Jan–Aug/0–330	Not expected to occur. The project site is not within the appropriate elevation range and does not contain suitable coastal bluff scrub or dunes.
Chorizanthe parryi var. *parryi*	Parry's spineflower	None/None/1B.1	Chaparral, Cismontane woodland, Coastal scrub, Valley and foothill grassland; sandy or rocky, openings/annual herb/Apr–June/900–4005	Moderate potential to occur. The project site is within the appropriate elevation range and supports chaparral and grassland vegetation communities; The survey area consists of the appropriate sandy soils. This species withstands disturbance like that seen within the survey area. According to Calflora, Parry's spineflower is most likely to occur in western Riverside county and populations are documented near the survey area. This species was not observed within the study area; however, the reconnaissance survey was not conducted during the appropriate blooming period.
Chorizanthe polygonoides var. *longispina*	long-spined spineflower	None/None/1B.2	Chaparral, Coastal scrub, Meadows and seeps, Valley and foothill grassland, Vernal pools; often clay/annual herb/Apr–July/95–5020	Not expected to occur. The project site is within the appropriate elevation range and supports chaparral and grassland vegetation communities; however, there are no clay soils.
Clarkia delicata	delicate clarkia	None/None/1B.2	Chaparral, Cismontane woodland; often gabbroic/annual herb/Apr–June/770–3280	Low potential to occur. The project site is within the appropriate elevation range and supports a chaparral vegetation community; however, there are no gabbroid type soils or cismontane woodlands.

Scientific Name	Common Name	Status (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur
Clinopodium chandleri	San Miguel savory	None/None/1B.2	Chaparral, Cismontane woodland, Coastal scrub, Riparian woodland, Valley and foothill grassland; Rocky, gabbroic or metavolcanic/perennial shrub/Mar–July/390–3525	Not expected to occur. The project site does not contain suitable rocky soils and this perennial evergreen shrub would have been detected during the reconnaissance survey.
Cryptantha wigginsii	Wiggins' cryptantha	None/None/1B.2	Coastal scrub; often clay/annual herb/Feb–June/65–900	Not expected to occur. The project site is not within the appropriate elevation range, does not contain clay soils, and does not support suitable coastal bluff scrub.
Dodecahema leptoceras	slender-horned spineflower	FE/SE/1B.1	Chaparral, Cismontane woodland, Coastal scrub (alluvial fan); sandy/annual herb/Apr–June/655–2495	Not expected to occur. The project site is within the appropriate elevation range and supports a chaparral vegetation community; however, there are no alluvial fan formations.
Dudleya multicaulis	many-stemmed dudleya	None/None/1B.2/MSHCP NEPS	Chaparral, Coastal scrub, Valley and foothill grassland; often clay/perennial herb/Apr–July/45–2590	Not expected to occur. The project site is within the appropriate elevation range and supports a chaparral vegetation community. However, there are no clay soils and this perennial species would have been detected during the reconnaissance survey if present.
Dudleya viscida	sticky dudleya	None/None/1B.2	Coastal bluff scrub, Chaparral, Cismontane woodland, Coastal scrub; rocky/perennial herb/May–June/30–1805	Not expected to occur. The project site is within the appropriate elevation range and supports a chaparral vegetation community. However, sticky dudleya is more likely to be found on coastal rocky cliff faces like those found on Camp Pendleton. This perennial species would have been detected during the reconnaissance survey if present but no rocky cliff habitat was present.

Scientific Name	Common Name	Status (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur
Eryngium aristulatum var. *parishii*	San Diego button-celery	FE/SE/1B.1	Coastal scrub, Valley and foothill grassland, Vernal pools; mesic/annual / perennial herb/Apr–June/65–2035	Not expected to occur. The project site is within the appropriate elevation range and supports a grassland vegetation community. However, the project site does not support vernal pool habitat and this perennial species would have been detected during the reconnaissance survey if present.
Geothallus tuberosus	Campbell's liverwort	None/None/1B.1	Coastal scrub (mesic), Vernal pools; soil/ephemeral liverwort//30–1970	Not expected to occur. The project site does not support mesic coastal scrub or vernal pool vegetation communities.
Hesperocyparis forbesii	Tecate cypress	None/None/1B.1	Closed-cone coniferous forest, Chaparral; clay, gabbroic or metavolcanic/perennial evergreen tree//260–4920	Not expected to occur. While the project site contains chaparral vegetation communities and is within the appropriate elevation range, there are no clay soils and this evergreen tree would have been detected during the reconnaissance survey.
Horkelia cuneata var. *puberula*	mesa horkelia	None/None/1B.1	Chaparral (maritime), Cismontane woodland, Coastal scrub; sandy or gravelly/perennial herb/Feb–July(Sep)/225–2655	Not expected to occur. Although the project site is within the appropriate elevation range, this perennial species would have been detected during the reconnaissance survey if present. According to Calflora, mesa horkelia has a generally coastal distribution.
Horkelia truncata	Ramona horkelia	None/None/1B.3	Chaparral, Cismontane woodland; clay, gabbroic/perennial herb/May–June/1310–4265	Not expected to occur. Although the project site is within the appropriate elevation range, there are no gabrroic soils and marginally suitable habitat (chaparral). This perennial species would have been detected during the reconnaissance survey if present.
Juncus luciensis	Santa Lucia dwarf rush	None/None/1B.2	Chaparral, Great Basin scrub, Lower montane coniferous forest, Meadows and seeps, Vernal pools/annual herb/Apr–July/980–6695	Not expected to occur. Although the project site is within the appropriate elevation range, there is no suitable semi-aquatic habitat (meadows, seeps, vernal pools).

Scientific Name	Common Name	Status (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur
Lasthenia glabrata ssp. *coulteri*	Coulter's goldfields	None/None/1B.1	Marshes and swamps (coastal salt), Playas, Vernal pools/annual herb/Feb–June/0–4005	Not expected to occur. While the project site is within the appropriate elevation range, there is no playa or vernal pool habitats to support this species.
Lepechinia cardiophylla	heart-leaved pitcher sage	None/None/1B.2	Closed-cone coniferous forest, Chaparral, Cismontane woodland/perennial shrub/Apr–July/1705–4495	Not expected to occur. While the project site contains chaparral vegetation, it is outside of the appropriate elevation range for this species and heart-leaved pitcher sage would have been detected during reconnaissance surveys.
Lilium parryi	lemon lily	None/None/1B.2	Lower montane coniferous forest, Meadows and seeps, Riparian forest, Upper montane coniferous forest; mesic/perennial bulbiferous herb/July–Aug/4000–9005	Not expected to occur. The project site is outside of the appropriate elevation range and does not contain riparian or coniferous forest habitat.
Limnanthes alba ssp. *parishii*	Parish's meadowfoam	None/SE/1B.2	Lower montane coniferous forest, Meadows and seeps, Vernal pools; vernally mesic/annual herb/Apr–June/1965–6560	Not expected to occur. The project site is outside of the appropriate elevation range and does not contain riparian or coniferous forest habitat.
Mielichhoferia shevockii	Shevock's copper moss	None/None/1B.2	Cismontane woodland (metamorphic, rock, mesic)/moss//2460–4595	Not expected to occur. The project site is outside of the appropriate elevation range and does not support cismontane forest.
Monardella hypoleuca ssp. *intermedia*	intermediate monardella	None/None/1B.3	Chaparral, Cismontane woodland, Lower montane coniferous forest (sometimes); Usually understory/perennial rhizomatous herb/Apr–Sep/1310–4100	Not expected to occur. The project site supports marginally suitable habitat (chaparral), but lacks woodland overstory to support this species. This perennial species would likely have been detected during the reconnaissance survey if present.

Scientific Name	Common Name	Status (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur
Monardella hypoleuca ssp. *lanata*	felt-leaved monardella	None/None/1B.2	Chaparral, Cismontane woodland/perennial rhizomatous herb/June–Aug/980–5165	Not expected to occur. The project site supports marginally suitable habitat (chaparral), but lacks woodland overstory to support this species. This perennial species would likely have been detected during the reconnaissance survey if present.
Monardella macrantha ssp. *hallii*	Hall's monardella	None/None/1B.3	Broadleafed upland forest, Chaparral, Cismontane woodland, Lower montane coniferous forest, Valley and foothill grassland/perennial rhizomatous herb/June–Oct/2395–7200	Not expected to occur. The project site supports marginally suitable habitat (chaparral), but lacks woodland overstory to support this species. This perennial species would likely have been detected during the reconnaissance survey if present.
Navarretia fossalis	spreading navarretia	FT/None/1B.1/ MSHCP NEPS	Chenopod scrub, Marshes and swamps (assorted shallow freshwater), Playas, Vernal pools/annual herb/Apr–June/95–2150	Not expected to occur. Although the project site is within the appropriate elevation range, it does not support chenopod scrub or vernal pool habitat.
Navarretia prostrata	prostrate vernal pool navarretia	None/None/1B.1	Coastal scrub, Meadows and seeps, Valley and foothill grassland (alkaline), Vernal pools; Mesic/annual herb/Apr–July/5–3970	Not expected to occur. Although the project site is within the appropriate elevation range, it does not contain alkaline soils nor support meadows, mesic seeps, or vernal pool habitat.
Nolina cismontana	chaparral nolina	None/None/1B.2	Chaparral, Coastal scrub; sandstone or gabbro/perennial evergreen shrub/(Mar)May–July/455–4185	Not expected to occur. The project site does not contain sandstone or gabbro soils and this conspicuous, evergreen shrub would have likely been detected during the reconnaissance survey. According to Calflora, chaparral nolina populations occur south of Temecula.
Orcuttia californica	California Orcutt grass	FE/SE/1B.1/ MSHCP NEPS	Vernal pools/annual herb/Apr–Aug/45–2165	Not expected to occur. While the project site is within the appropriate elevation range, it does not support vernal pool habitat.

Scientific Name	Common Name	Status (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur
Packera ganderi	Gander's ragwort	None/SR/1B.2	Chaparral (burns, gabbroic outcrops)/perennial herb/Apr–June/1310–3935	Not expected to occur. While the project site is within the appropriate elevation range and contains chaparral, it is located outside of the known geographic range of this species. According to Calflora, Gander's ragwort occurs almost entirely within San Diego county.
Pseudognaphalium leucocephalum	white rabbit-tobacco	None/None/2B.2	Chaparral, Cismontane woodland, Coastal scrub, Riparian woodland; sandy, gravelly/perennial herb/(July)Aug–Nov(Dec)/0–6890	Low potential to occur. The project site is within the appropriate elevation range and contains chaparral vegetation. However, the survey area is highly disturbed. According to Calflora, white rabbit tobacco occurs south of Temecula and west of Murrieta.
Saltugilia latimeri	Latimer's woodland-gilia	None/None/1B.2	Chaparral, Mojavean desert scrub, Pinyon and juniper woodland; rocky or sandy, often granitic, sometimes washes/annual herb/Mar–June/1310–6235	Not expected to occur. The project site is not located in Mojavean desert scrub or a wash environment. According to Calflora, Latimer's woodland gilia occurs on Mt. San Jacinto and east of Mt. San Jacinto.
Scutellaria bolanderi ssp. *austromontana*	southern mountains skullcap	None/None/1B.2	Chaparral, Cismontane woodland, Lower montane coniferous forest; mesic/perennial rhizomatous herb/June–Aug/1390–6560	Low potential to occur. The project site does not support a mesic, woodlands and only marginally suitable chaparral habitat.
Senecio aphanactis	chaparral ragwort	None/None/2B.2	Chaparral, Cismontane woodland, Coastal scrub; sometimes alkaline/annual herb/Jan–Apr(May)/45–2625	Low potential to occur. The project site is within the appropriate elevation range and supports a chaparral vegetation community, but it does not contain alkaline soils.
Sibaropsis hammittii	Hammitt's clay-cress	None/None/1B.2	Chaparral (openings), Valley and foothill grassland; clay/annual herb/Mar–Apr/2360–3495	Low potential to occur. The project site is within the appropriate elevation range and supports chaparral and grassland vegetation communities, but does not contain clay soils.

Scientific Name	Common Name	Status (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur
Sidalcea neomexicana	salt spring checkerbloom	None/None/2B.2	Chaparral, Coastal scrub, Lower montane coniferous forest, Mojavean desert scrub, Playas; alkaline, mesic/perennial herb/Mar–June/45–5020	Low potential to occur. The project site is within the appropriate elevation range and supports a chaparral vegetation community, but it does not contain alkaline soils.
Sphaerocarpos drewei	bottle liverwort	None/None/1B.1	Chaparral, Coastal scrub; openings, soil/ephemeral liverwort//295–1970	Low potential to occur. The project site is within the appropriate elevation range, but supports marginally suitable habitat (chaparral).
Symphyotrichum defoliatum	San Bernardino aster	None/None/1B.2	Cismontane woodland, Coastal scrub, Lower montane coniferous forest, Meadows and seeps, Marshes and swamps, Valley and foothill grassland (vernally mesic); near ditches, streams, springs/perennial rhizomatous herb/July–Nov/5–6695	Not expected to occur. The project site is within the appropriate elevation range, but does not contain vernally mesic grassland or other mesic environments.
Trichocoronis wrightii var. *wrightii*	Wright's trichocoronis	None/None/2B.1/ MSHCP NEPS	Meadows and seeps, Marshes and swamps, Riparian forest, Vernal pools; alkaline/annual herb/May–Sep/15–1425	Not expected to occur. The project site is within the appropriate elevation range, but does not support vernal pools, riparian, or other mesic environments. Additionally, there are no alkaline soils within the project site.
Tetracoccus dioicus	Parry's tetracoccus	None/None/1B.2	Chaparral, Coastal scrub/perennial deciduous shrub/Apr–May/540–3280	Not expected to occur. Although the project site is within the appropriate elevation range and supports a chaparral vegetation community, this conspicuous perennial shrub would have likely been detected during the reconnaissance survey. According to Calflora, Parry's tetracocus generally occurs within San Diego county.

Scientific Name	Common Name	Status (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur
Tortula californica	California screw-moss	None/None/1B.2	Chenopod scrub, Valley and foothill grassland; sandy, soil/moss//30–4790	Low potential to occur. While the project site contains grassland and is within the appropriate elevation range, the survey area is highly disturbed.

Attachment F

Special-Status Wildlife Species Detected or Potentially Occurring in the Study Area

Scientific Name	Common Name	Status (Federal/State)	Habitat	Potential to Occur
Amphibians				
Anaxyrus californicus	arroyo toad	FE/SSC	Semi-arid areas near washes, sandy riverbanks, riparian areas, palm oasis, Joshua tree, mixed chaparral and sagebrush; stream channels for breeding (typically third order); adjacent stream terraces and uplands for foraging and wintering	Not expected to occur. The project site does not support suitable aquatic or upland habitat for this species.
Rana draytonii	California red-legged frog	FT/SSC	Lowland streams, wetlands, riparian woodlands, livestock ponds; dense, shrubby or emergent vegetation associated with deep, still or slow-moving water; uses adjacent uplands	Not expected to occur. The project site does not support suitable aquatic or upland habitat for this species.
Spea hammondii	western spadefoot	None/SSC	Primarily grassland and vernal pools, but also in ephemeral wetlands that persist at least 3 weeks in chaparral, coastal scrub, valley–foothill woodlands, pastures, and other agriculture	Not expected to occur. The project site does not support suitable aquatic or upland habitat for this species.
Taricha torosa (Monterey Co. south only)	California newt	None/SSC	Wet forests, oak forests, chaparral, and rolling grassland	Not expected to occur. The project site does not support suitable aquatic or upland habitat for this species.
Reptiles				
Actinemys marmorata	western pond turtle	None/SSC	Slow-moving permanent or intermittent streams, ponds, small lakes, and reservoirs with emergent basking sites; adjacent uplands used for nesting and during winter	Not expected to occur. The project site does not support suitable aquatic or upland habitat for this species.
Arizona elegans occidentalis	California glossy snake	None/SSC	Commonly occurs in desert regions throughout southern California. Prefers open sandy areas with scattered brush. Also found in rocky areas.	Not expected to occur. The project site does not contain open, sandy habitat that could support this species.

Scientific Name	Common Name	Status (Federal/State)	Habitat	Potential to Occur
Aspidoscelis tigris stejnegeri	San Diegan tiger whiptail	None/SSC	Hot and dry areas with sparse foliage, including chaparral, woodland, and riparian areas.	Low potential to occur. The project site supports marginally suitable habitat (chaparral) that could support this species.
Coleonyx variegatus abbotti	San Diego banded gecko	None/SSC	Rocky areas within coastal scrub and chaparral	Low potential to occur. The project site supports marginally suitable habitat (chaparral) that could support this species.
Crotalus ruber	red diamondback rattlesnake	None/SSC	Coastal scrub, chaparral, oak and pine woodlands, rocky grasslands, cultivated areas, and desert flats	Moderate potential to occur. The project site supports suitable chaparral and grassland habitat that could support this species. This species was not observed within the study area.
Phrynosoma blainvillii	Blainville's horned lizard	None/SSC	Open areas of sandy soil in valleys, foothills, and semi-arid mountains including coastal scrub, chaparral, valley–foothill hardwood, conifer, riparian, pine–cypress, juniper, and annual grassland habitats	Low potential to occur. The project site supports marginally suitable habitat (chaparral and grasslands that lack sandy soils) that could support this species.
Salvadora hexalepis virgultea	coast patch-nosed snake	None/SSC	Brushy or shrubby vegetation; requires small mammal burrows for refuge and overwintering sites	Moderate potential to occur. The project site supports suitable chaparral habitat with small mammal burrows that could support this species. This species was not observed within the study area.
Thamnophis hammondii	two-striped gartersnake	None/SSC	Streams, creeks, pools, streams with rocky beds, ponds, lakes, vernal pools	Not expected to occur. The project site does not support suitable aquatic or upland habitat for this species.
Birds				
Agelaius tricolor (nesting colony)	tricolored blackbird	None/SSC, WL	Nests near freshwater, emergent wetland with cattails or tules, but also in Himalayan blackberry; forages in grasslands, woodland, and agriculture	Not expected to occur. The project site does not support freshwater or emergent wetland habitat that would support nesting for this species.

Scientific Name	Common Name	Status (Federal/State)	Habitat	Potential to Occur
Aquila chrysaetos (nesting & wintering)	golden eagle	None/FP, WL	Nests and winters in hilly, open/semi-open areas, including shrublands, grasslands, pastures, riparian areas, mountainous canyon land, open desert rimrock terrain; nests in large trees and on cliffs in open areas and forages in open habitats	Not expected to occur. The project site is surrounded by development and does not contain open areas suitable for nesting or wintering. In addition, there are no cliff-sides or large trees to provide nesting habitat.
Athene cunicularia (burrow sites & some wintering sites)	burrowing owl	None/SSC	Nests and forages in grassland, open scrub, and agriculture, particularly with ground squirrel burrows	Low potential to occur. The project site supports grassland and chapparal vegetation communities suitable for this species. However, no California ground squirrels or their burrows were observed on the project site. One rock pile with marginal interstitial space was located within the project site.
Buteo swainsoni (nesting)	Swainson's hawk	None/ST	Nests in open woodland and savanna, riparian, and in isolated large trees; forages in nearby grasslands and agriculturals areas such as wheat and alfalfa fields and pasture	Not expected to occur. The project site is surrounded by development and does not support woodlands or open areas suitable for nesting or foraging.
Campylorhynchus brunneicapillus sandiegensis (San Diego & Orange Counties only)	coastal cactus wren	None/SSC	Southern cactus scrub patches	Not expected to occur. The project site does not contain cactus scrub to support this species.
Charadrius alexandrinus nivosus (nesting)	western snowy plover	FT, BCC/SSC, WL	On coasts nests on sandy marine and estuarine shores; in the interior nests on sandy, barren or sparsely vegetated flats near saline or alkaline lakes, reservoirs, and ponds	Not expected to occur. The project site does not support aquatic habitat suitable for this species.

Scientific Name	Common Name	Status (Federal/State)	Habitat	Potential to Occur
Circus cyaneus (nesting)	northern harrier	None/SSC	Nests in open wetlands (marshy meadows, wet lightly-grazed pastures, old fields, freshwater and brackish marshes); also in drier habitats (grassland and grain fields); forages in grassland, scrubs, rangelands, emergent wetlands, and other open habitats	Not expected to nest, low potential to forage. The project site does not contain wetland habitat that would support the nesting of this species; however, the project site contains grassland that could support foraging, but it is an isolated stand surrounded by development.
Coccyzus americanus occidentalis (nesting)	western yellow-billed cuckoo	FT, BCC/SE, WL	Nests in dense, wide riparian woodlands and forest with well-developed understories	Not expected to occur. The project site does not support riparian vegetation for this species.
Elanus leucurus (nesting)	white-tailed kite	None/FP	Nests in woodland, riparian, and individual trees near open lands; forages opportunistically in grassland, meadows, scrubs, agriculture, emergent wetland, savanna, and disturbed lands	Not expected to occur. The project site does not support woodlands or riparian areas near open lands for this species to nest. However, the project site contains grassland that could support foraging, but it is an isolated stand surrounded by development.
Haliaeetus leucocephalus (nesting & wintering)	bald eagle	FDL, BCC/SE, FP	Nests in forested areas adjacent to large bodies of water, including seacoasts, rivers, swamps, large lakes; winters near large bodies of water in lowlands and mountains	Not expected to occur. The project site does not support forested areas near aquatic habitat for this species to nest and/or winter.
Icteria virens (nesting)	yellow-breasted chat	None/SSC	Nests and forages in dense, relatively wide riparian woodlands and thickets of willows, vine tangles, and dense brush	Not expected to nest or forage. The project site does not support riparian vegetation for this species to nest.
Lanius ludovicianus (nesting)	loggerhead shrike	None/SSC	Nests and forages in open habitats with scattered shrubs, trees, or other perches	Moderate potential to occur. The project site supports some suitable habitat (chaparral with open habitat) for this species to nest; however, it is an isolated stand because it is surrounded by development. This species was not observed within the study area.

Scientific Name	Common Name	Status (Federal/State)	Habitat	Potential to Occur
Polioptila californica californica	coastal California gnatcatcher	FT/SSC, WL	Nests and forages in various sage scrub communities, often dominated by California sagebrush and buckwheat; generally avoids nesting in areas with a slope of greater than 40%; majority of nesting at less than 1,000 feet above mean sea level	Low potential to occur. The project site lacks suitable sage scrub habitat, but supports chaparral that contains scattered buckwheat suitable for foraging. This marginally suitable habitat is isolated and surrounded by development. The species has been documented as occurring approximately 0.25 mile west of the project site near McElwain Road (CDFW 2018).
Vireo bellii pusillus (nesting)	least Bell's vireo	FE/SE, WL	Nests and forages in low, dense riparian thickets along water or along dry parts of intermittent streams; forages in riparian and adjacent shrubland late in nesting season	Not expected to occur. The project site does not support riparian vegetation for this species to nest.
Fishes				
Gila orcuttii	arroyo chub	None/SSC	Warm, fluctuating streams with slow-moving or backwater sections of warm to cool streams at depths >40 centimeters (16 inches); substrates of sand or mud	Not expected to occur. The project site does not support aquatic habitat for this species.
Mammals				
Antrozous pallidus	pallid bat	None/SSC	Grasslands, shrublands, woodlands, forests; most common in open, dry habitats with rocky outcrops for roosting, but also roosts in man-made structures and trees	Low potential to occur. The project site supports a grassland vegetation community suitable for foraging; however, the stand is isolated and surrounded by development.

Scientific Name	Common Name	Status (Federal/State)	Habitat	Potential to Occur
Chaetodipus californicus femoralis	Dulzura pocket mouse	None/SSC	Open habitat, coastal scrub, chaparral, oak woodland, chamise chaparral, mixed-conifer habitats; disturbance specialist; 0 to 3,000 feet above mean sea level	Low potential to occur. The project site is within the elevation range for this species and supports marginally suitable habitat (chamise chaparral, but completely surrounded by development) for this species. The species has been documented as occurring approximately 3.5 miles south of the project site near Jackson Avenue (CDFW 2018).
Chaetodipus fallax fallax	northwestern San Diego pocket mouse	None/SSC	Coastal scrub, mixed chaparral, sagebrush, desert wash, desert scrub, desert succulent shrub, pinyon–juniper, and annual grassland	Low potential to occur. The project site is within the elevation range for this species and supports limited chaparral and annual grassland habitat suitable for this species (isolated by surrounding development). The species has been documented as occurring approximately 0.75 mile south of the project site (CDFW 2018).
Dipodomys stephensi	Stephens' kangaroo rat	FE/ST	Annual and perennial grassland habitats, coastal scrub or sagebrush with sparse canopy cover, or in disturbed areas	Low potential to occur. The project site is within the elevation range for this species and supports limited annual grassland habitat suitable for this species (isolated and surrounded by development). The species has been documented as occuring approximately 0.6 mile southeast of the project site (CDFW 2018). However, this historic occurrence (1987) is unlikely to have persisted.

Scientific Name	Common Name	Status (Federal/State)	Habitat	Potential to Occur
Eumops perotis californicus	western mastiff bat	None/SSC	Chaparral, coastal and desert scrub, coniferous and deciduous forest and woodland; roosts in crevices in rocky canyons and cliffs where the canyon or cliff is vertical or nearly vertical, trees, and tunnels	Not expected to occur. The project site lacks supports marginally suitable foraging habitat and lacks suitable roosting habitat.
Lasiurus xanthinus	western yellow bat	None/SSC	Valley–foothill riparian, desert riparian, desert wash, and palm oasis habitats; below 2,000 feet above mean sea level; roosts in riparian and palms	Not expected to roost or forage. The project site does not support riparian or palms suitable for this species.
Lepus californicus bennettii	San Diego black-tailed jackrabbit	None/SSC	Arid habitats with open ground; grasslands, coastal scrub, agriculture, disturbed areas, and rangelands	Moderate potential to occur. The project site contains both agriculture and disturbed landscapes suitable for this species. This species was not observed within the study area.
Neotoma lepida intermedia	San Diego desert woodrat	None/SSC	Coastal scrub, desert scrub, chaparral, cacti, rocky areas	Low potential to occur. The project site supports marginally suitable chaparral habitat for this species. The project site lacks rocky areas and is completely surrounded by development.
Nyctinomops femorosaccus	pocketed free-tailed bat	None/SSC	Pinyon–juniper woodlands, desert scrub, desert succulent shrub, desert riparian, desert wash, alkali desert scrub, Joshua tree, and palm oases; roosts in high cliffs or rock outcrops with dropoffs, caverns, and buildings	Not expected to occur. The project site does not support riparian or desert wash habitats suitable for this species.
Onychomys torridus ramona	southern grasshopper mouse	None/SSC	Grassland and sparse coastal scrub	Low potential to occur. The project site supports marginally suitable grassland habitat for this species. The project site is completely surrounded by development.

Scientific Name	Common Name	Status (Federal/State)	Habitat	Potential to Occur
Perognathus longimembris brevinasus	Los Angeles pocket mouse	None/SSC	Lower-elevation grassland, alluvial sage scrub, and coastal scrub	Low potential to occur. The project site supports marginally suitable grassland habitat for this species. The project site is surrounded by development. The species has been documented as occurring approximately 4.3 miles southeast of the project site (CDFW 2018).
Perognathus longimembris internationalis	Jacumba pocket mouse	None/SSC	Desert scrub and sparse sage scrub in areas with fine sandy soils	Not expected to occur. The project site does not support suitable desert scrub or sparse sage scrub habitat with fine sandy soils.
Invertebrates				
Branchinecta lynchi	vernal pool fairy shrimp	FT/None	Vernal pools, seasonally ponded areas within vernal swales, and ephemeral freshwater habitats	Not expected to occur. The project site does not support vernal pools or seasonal depressions suitable for this species.
Branchinecta sandiegonensis	San Diego fairy shrimp	FE/None	Vernal pools, non-vegetated ephemeral pools	Not expected to occur. The project site does not support vernal pools or seasonal depressions suitable for this species.
Euphydryas editha quino	quino checkerspot butterfly	FE/None	Annual forblands, grassland, open coastal scrub and chaparral; often soils with cryptogamic crusts and fine-textured clat; host plants include Plantago erecta, Antirrhinum coulterianum, and Plantago patagonica (Silverado Occurrence Complex)	Low potential to occur. The project site supports marginally suitable habitat (chaparral that lacks cryptogamic crusts or clay soils). Additionally, no known host plants are present on the project site.
Streptocephalus woottoni	Riverside fairy shrimp	FE/None	Vernal pools, non-vegetated ephemeral pools	Not expected to occur. The project site does not support vernal pools or seasonal depressions suitable for this species.

Appendix D

Cultural Resources Inventory Report

DUDEK

38 NORTH MARENGO
PASADENA, CALIFORNIA 91101
T: 626.204.9800

March 29, 2018 (Revised September 9, 2019) 10773

Allan Davis
Retail Development Advisors
27890 Clinton Keith Road D90
Murrieta, California 92562

Subject: ***Cultural Resources Inventory for the Vineyard II Project within the City of Murrieta, Riverside County, California***

Dear Mr. Davis:

Dudek was retained by Retail Development Advisors to conduct a cultural resources study in support of the proposed Vineyard II Project (project) in the City of Murrieta, California. The purpose of this study is to identify all cultural resources within the proposed project site and determine whether implementation of the proposed project would have the potential to impact known and unknown cultural resources. The City of Murrieta (City) is the lead agency responsible for compliance with the California Environmental Quality Act (CEQA). All cultural resource fieldwork and reporting for this proposed project has been conducted by archaeologists meeting the Secretary of the Interior's Professional Qualifications Standards.

The present study documents the results of a California Historical Resources Information System (CHRIS) records search conducted at the Eastern Information Center (EIC), a Native American Heritage Commission (NAHC) Sacred Lands File (SLF) search, the results of informal tribal consultation, and an intensive-level pedestrian survey.

The EIC records identified 46 previously recorded cultural resources within 1.0-mile (1,609 meters (m)) of the proposed project site; none of these resources were identified within the proposed project site. However, a review of the NAHC's SLF did identify the presence of Native American cultural resources within the records search area of the project site, though no specific information regarding the type and location of the resource(s) was provided. Subsequent Native American outreach letters for the proposed project resulted in four responses. In addition, an intensive-level pedestrian survey conducted of the proposed project site and surrounding area did not identify cultural resources.

PROJECT LOCATION

The 6.65-acre project site is located at the northeast corner of the Interstate (I)-215 and Clinton Keith Road, within the City of Murrieta in Riverside County, California. The proposed project

site is located within Section 34 of the public land survey system (PLSS) Township 6 South, Range 3 West as shown on the *Murrieta*, CA 7.5-minute USGS Quadrangle (Appendix A: Figure 1). The proposed project site is bound by I-215 to the west, Clinton Keith Road to the south, and Antelope Road to the east. North County Sand & Gravel is located immediately east of the proposed project site. Specifically, the project site is located in the northern portion of the City of Murrieta and contains approximately 6.65 acres of mostly vacant land composed of Assessor's Parcel Numbers (APNs) 392-270-030, 392-270-031, 392,270-032, and 392-270-033, in the northeastern corner of the northbound on-ramp to I-215 and Clinton Keith Road (Appendix A: Figure 2).

PROJECT DESCRIPTION

The proposed project would involve the construction and operation of approximately 32,120 square feet of new development, including an auto-related services/retail store, tire store, retail pad, three-tenant food and retail pad with one drive-through lane on the west and south of the building, drive-through fast food restaurant, and a two-lane drive-through ATM bank. The project would include 204 parking spaces (179 required by the City) adjoining the retail and other commercial uses.

REGULATORY SETTING

This section includes a discussion of the applicable state laws, ordinances, regulations, and standards governing cultural resources, which must be adhered to before and during construction of the proposed project.

State

The California Register of Historical Resources (CRHR)

In California, the term "historical resource" includes, but is not limited to, "any object, building, structure, site, area, place, record, or manuscript which is historically or archaeologically significant, or is significant in the architectural, engineering, scientific, economic, agricultural, educational, social, political, military, or cultural annals of California" (California Public Resources Code (PRC), Section 5020.1(j)). In 1992, the California legislature established the California Register of Historical Resources (CRHR) "to be used by state and local agencies, private groups, and citizens to identify the state's historical resources and to indicate what properties are to be protected, to the extent prudent and feasible, from substantial adverse change" (PRC Section 5024.1(a)). The criteria for listing resources on the CRHR were expressly developed to be in accordance with previously established criteria developed for listing in the National Register of Historic Places (NRHP), enumerated below. According to PRC Section 5024.1(c)(1–4), a resource

is considered historically significant if it (i) retains "substantial integrity," and (ii) meets at least one of the following criteria:

(1) Is associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage.

(2) Is associated with the lives of persons important in our past.

(3) Embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic values.

(4) Has yielded, or may be likely to yield, information important in prehistory or history.

In order to understand the historic importance of a resource, sufficient time must have passed to obtain a scholarly perspective on the events or individuals associated with the resource. A resource less than 50 years old may be considered for listing in the CRHR if it can be demonstrated that sufficient time has passed to understand its historical importance (see 14 California Code of Regulations [CCR] 4852(d)(2)).

The CRHR protects cultural resources by requiring evaluations of the significance of prehistoric and historic resources. The criteria for the CRHR are nearly identical to those for the NRHP, and properties listed or formally designated as eligible for listing in the NRHP are automatically listed in the CRHR, as are the state landmarks and points of interest. The CRHR also includes properties designated under local ordinances or identified through local historical resource surveys.

California Environmental Quality Act

As described further, the following CEQA statutes (PRC Section 21000 et seq.) and CEQA Guidelines (14 CCR 15000 et seq.) are of relevance to the analysis of archaeological, historic, and tribal cultural resources:

- PRC Section 21083.2(g) defines "unique archaeological resource."
- PRC Section 21084.1 and CEQA Guidelines Section 15064.5(a) defines "historical resources." In addition, CEQA Guidelines Section 15064.5(b) defines the phrase "substantial adverse change in the significance of an historical resource"; it also defines the circumstances when a project would materially impair the significance of a historical resource.
- PRC Section 21074(a) defines "tribal cultural resources."

- PRC Section 5097.98 and CEQA Guidelines Section 15064.5(e) set forth standards and steps to be employed following the accidental discovery of human remains in any location other than a dedicated ceremony.
- PRC Sections 21083.2(b) and 21083.2(c) and CEQA Guidelines Section 15126.4 provide information regarding the mitigation framework for archaeological and historic resources, including examples of preservation-in-place mitigation measures. Preservation in place is the preferred manner of mitigating impacts to significant archaeological sites because it maintains the relationship between artifacts and the archaeological context, and may also help avoid conflict with religious or cultural values of groups associated with the archaeological site(s).

More specifically, under CEQA, a project may have a significant effect on the environment if it may cause "a substantial adverse change in the significance of an historical resource" (PRC Section 21084.1; CEQA Guidelines Section 15064.5(b)). If a site is listed or eligible for listing in the CRHR, or included in a local register of historic resources, or identified as significant in a historical resources survey (meeting the requirements of PRC Section 5024.1(q)), it is an "historical resource" and is presumed to be historically or culturally significant for purposes of CEQA (PRC Section 21084.1; CEQA Guidelines Section 15064.5(a)). The lead agency is not precluded from determining that a resource is a historical resource even if it does not fall within this presumption (PRC Section 21084.1; CEQA Guidelines Section 15064.5(a)).

A "substantial adverse change in the significance of an historical resource" reflecting a significant effect under CEQA means "physical demolition, destruction, relocation, or alteration of the resource or its immediate surroundings such that the significance of an historical resource would be materially impaired" (CEQA Guidelines Section 15064.5(b)(1); PRC Section 5020.1(q)). In turn, the significance of a historical resource is materially impaired when a project does any of the following:

(1) Demolishes or materially alters in an adverse manner those physical characteristics of an historical resource that convey its historical significance and that justify its inclusion in, or eligibility for, inclusion in the California Register; or

(2) Demolishes or materially alters in an adverse manner those physical characteristics that account for its inclusion in a local register of historical resources pursuant to Section 5020.1(k) of the PRC or its identification in an historical resources survey meeting the requirements of Section 5024.1(g) of the PRC, unless the public agency reviewing the effects of the project establishes by a preponderance of evidence that the resource is not historically or culturally significant; or

(3) Demolishes or materially alters in an adverse manner those physical characteristics of a historical resource that convey its historical significance and that justify its eligibility for inclusion in the California Register as determined by a lead agency for purposes of CEQA (CEQA Guidelines Section 15064.5(b)(2)).

Pursuant to these sections, the CEQA inquiry begins with evaluating whether a project site contains any "historical resources," then evaluates whether that project will cause a substantial adverse change in the significance of a historical resource such that the resource's historical significance is materially impaired.

If it can be demonstrated that a project will cause damage to a unique archaeological resource, the lead agency may require reasonable efforts be made to permit any or all of these resources to be preserved in place or left in an undisturbed state. To the extent that they cannot be left undisturbed, mitigation measures are required (PRC Sections 21083.2(a)–(c)).

Section 21083.2(g) defines a unique archaeological resource as an archaeological artifact, object, or site about which it can be clearly demonstrated that without merely adding to the current body of knowledge, there is a high probability that it meets any of the following criteria:

(1) Contains information needed to answer important scientific research questions and that there is a demonstrable public interest in that information.

(2) Has a special and particular quality such as being the oldest of its type or the best available example of its type.

(3) Is directly associated with a scientifically recognized important prehistoric or historic event or person (PRC Section 21083.2(g)).

Impacts on non-unique archaeological resources are generally not considered a significant environmental impact (PRC Section 21083.2(a); CEQA Guidelines Section 15064.5(c)(4)). However, if a non-unique archaeological resource qualifies as a TCR (PRC Sections 21074(c) and 21083.2(h)), further consideration of significant impacts is required.

CEQA Guidelines Section 15064.5 assigns special importance to human remains and specifies procedures to be used when Native American remains are discovered. As described below, these procedures are detailed in PRC Section 5097.98.

California State Assembly Bill 52

Assembly Bill (AB) 52 of 2014 amended PRC Section 5097.94 and added PRC Sections 21073, 21074, 21080.3.1, 21080.3.2, 21082.3, 21083.09, 21084.2, and 21084.3. AB 52 established that TCRs must be considered under CEQA and also provided for additional Native American consultation requirements for the lead agency. Section 21074 describes a TCR as a site, feature, place, cultural landscape, sacred place, or object that is considered of cultural value to a California Native American Tribe and that is either:

- On or determined to be eligible for the California Register of Historical Resources or a local historic register; or
- A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Section 5024.1.

AB 52 formalizes the lead agency–tribal consultation process, requiring the lead agency to initiate consultation with California Native American groups that are traditionally and culturally affiliated with the project site, including tribes that may not be federally recognized. Lead agencies are required to begin consultation prior to the release of a negative declaration, mitigated negative declaration, or environmental impact report.

Section 1 (a)(9) of AB 52 establishes that "a substantial adverse change to a tribal cultural resource has a significant effect on the environment." Effects on TCRs should be considered under CEQA. Section 6 of AB 52 adds Section 21080.3.2 to the PRC, which states that parties may propose mitigation measures "capable of avoiding or substantially lessening potential significant impacts to a tribal cultural resource or alternatives that would avoid significant impacts to a tribal cultural resource." Further, if a California Native American tribe requests consultation regarding project alternatives, mitigation measures, or significant effects to tribal cultural resources, the consultation shall include those topics (PRC Section 21080.3.2[a]). The environmental document and the mitigation monitoring and reporting program (where applicable) shall include any mitigation measures that are adopted (PRC Section 21082.3[a]).

California Health and Safety Code Section 7050.5

California law protects Native American burials, skeletal remains, and associated grave goods, regardless of their antiquity, and provides for the sensitive treatment and disposition of those remains. California Health and Safety Code Section 7050.5 requires that if human remains are discovered in any place other than a dedicated cemetery, no further disturbance or excavation of the site or nearby area reasonably suspected to contain human remains shall occur until the county

coroner has examined the remains (Section 7050.5(b)). PRC Section 5097.98 also outlines the process to be followed in the event that remains are discovered. If the coroner determines or has reason to believe the remains are those of a Native American, the coroner must contact NAHC within 24 hours (Section 7050.5(c)). NAHC will notify the "most likely descendant." With the permission of the landowner, the most likely descendant may inspect the site of discovery. The inspection must be completed within 48 hours of notification of the most likely descendant by NAHC. The most likely descendant may recommend means of treating or disposing of, with appropriate dignity, the human remains and items associated with Native Americans.

Local Regulations

County of Riverside General Plan

The County of Riverside General Plan (2013) specifies preservation of cultural resources under their Land Use Element. The policies laid out in this element that pertain to cultural resources include:

Policy LU 9.1 [Development should] Provide for permanent preservation of open space lands that contain important natural resources, cultural resources, hazards, water features, watercourses including arroyos and canyons, and scenic and recreational values.

Policy LU 9.4 Allow development clustering and/or density transfers in order to preserve open space, natural resources, cultural resources, and biologically-sensitive resources.

County of Riverside Cultural Resource Review Process

If deemed necessary by the County of Riverside Planning Department a Phase I Cultural Resource Review is required to be conducted for proposed private development projects within unincorporated Riverside County. These reports should be submitted directly to the office of the County Archaeologist.

City of Murrieta Historic Preservation Advisory Commission

The City of Murrieta Historic Preservation Advisory Commission (HPAC) acts in an advisory capacity to the City Council with regard to the preservation of cultural and archaeological resources within the City's boundaries. Through the City Planner or Community Development Director, the HPAC makes recommendations to the City Council regarding the designation of cultural resources. Such resources may include individual properties, archaeological districts, or Historic Murrieta Specific Plan within the City. In addition, the HPAC is responsible for

maintaining the register of designated cultural resources within the City; reviewing land use, redevelopment, municipal improvement and other planning matters and programs undertaken by the City with regard to cultural resources; providing recommendations to the City Council on the use of available Federal, State, local and private funding sources for protection of the City's cultural resources; and, reviewing applications for certificates of appropriateness related to demolition permits and development plan approval, in compliance with the City's *Development Code* for designated cultural resources (City of Murrieta 2011).

The City of Murrieta's Municipal Code Chapter 16 (Development Code) includes subchapter 16.26.050, which defines the City's designation criteria for cultural resources as copied below:

City of Murrieta Development Code

16.26.050. Designation Criteria for Cultural Resources Archaeological Districts and Historic Districts.

For the purposes of the ordinance codified in this section, an improvement or natural feature may be designated a cultural resource by the city council and any area within the city may be designated as an archaeological district or historic preservation district by the city council if it meets any of the following criteria:

A. Individual Resource Designation.

1. It exemplifies or reflects special elements of the city's cultural , architectural, aesthetic, social, economic, political, artistic and/or engineering heritage;
2. It is identified with persons, a business use or events significant in local, state or national history;
3. It embodies distinctive characteristics of style. type, period or method of construction or is a valuable ex-ample of the use of indigenous materials or craftsmanship;
4. It is representative of the notable work of a builder, designer or architect; or
5. Its unique location or singular physical characteristic represents an established and familiar visual feature of a neighborhood, community or the city:

B. Local District Designation.

A geographic area may be designated as a local archaeological district or historic preservation district if the city council, after hearing(s) finds that all of the requirements set forth below are met.

Concurrent with the designation of a historic preservation district, design guidelines shall be developed and shall apply to all properties within the historic preservation district.

1. Archaeological District.

    a. The area is a geographically definable area:

    b. The area possesses either:

        1. A significant concentration or continuity of archaeological resources ; or

        2. The area is associated with the prehistory of Murrieta.

    c. The designation of the geographic area as an archaeological district is reasonable, appropriate, and necessary to protect, promote and further the goals and purposes of the ordinance codified in this chapter and is not inconsistent with other goals and policies of the city.

2. Historic Preservation District.

    a. The area is a geographically definable area:

    b. The area possesses either:

        1. A significant concentration or continuity of buildings unified by past events or aesthetically by plan or physical development; or

        2. The area is associated with an event, person, or period significant or important to Murrieta history.

    c. The designation of the geographic area as a historic preservation district is reasonable, appropriate, and necessary to protect, promote and further the goals and purposes of the ordinance codified in this chapter and is not inconsistent with other goals and policies of the city.

    d. Determining Factors. In determining whether to designate a historic preservation district, the following factors shall be considered:

        1. District should have integrity of design, setting, materials, workmanship, and association.

        2. The collective value of the buildings and structures in a district taken together may be greater than the value of each individual building or structure.

3. Contributing Resources.

    Contributing resources may be included in a historic preservation district if the city council finds, after a hearing(s) that all of the following requirements are satisfied:

a. The nominated resource is within a historic preservation district;

b. The nominated resource either embodies the significant features and characteristics of the district or adds to the historical associations. architectural qualities or archaeological values identified for the district;

c. The nominated resource was present during the period of historical significance of the district and relates to the documented historical significance of the district;

d. The nominated resource possesses historic integrity or is capable of yielding important information about the period of historical significance or the district; and

e. The nominated resource has important historic or architectural worth, and its designation as a contributing resource is reasonable, appropriate and necessary to protect, promote and further the goals and purposes of the ordinance codified in this chapter.

BACKGROUND RESEARCH

CHRIS Records Search

On January 10, 2018, Dudek requested a California Historical Resources Information System (CHRIS) records search of the proposed project site and a 1.0 mile (1,609 m) records search buffer (study area), from the Eastern Information Center (EIC), which houses cultural resources records for Riverside County. The search included their collections of mapped prehistoric, historic, and built environment resources, Department of Parks and Recreation Site Records, technical reports, and ethnographic references. Additional consulted sources included historical maps of the study area, the NRHP, the CRHR, the California Historic Property Data File, the lists of California State Historical Landmarks, California Points of Historical Interest, and the Archaeological Determinations of Eligibility. The results of the confidential EIC records search are also provided in Confidential Appendix B.

Previously Conducted Cultural Resources Studies

The EIC records indicate that 60 previous cultural resources technical investigations have been conducted within 1.0-mile (1,609 m) of the proposed project site between 1948 and 2016. Of these, two previous studies overlap with the proposed project site while the remaining 58 are within the records search buffer. Table 1, below, summarizes all 60 previous cultural resource studies followed by a brief summary of each overlapping study.

Table 1.
Previously Conducted Cultural Resource Studies Within 1.0-Mile of the Proposed Project Site

EIC Report Number (RI-)	Authors	Year	Title	Proximity to Proposed Project Site
00004	B.E. McGown	1948	Report of Archaeological Survey: Temecula Flood Control Basin, Temecula, California	Outside
00210	Francis C. Berg	1977	Environmental Impact Evaluation: Archaeological Assessment of a Portion of the E 1/2 of the NE 1/4 of Section 35, T6S, R3W, USGS Murrieta 7.5Series Quadrangle, Riverside County, California	Outside
00232	Kenneth Daly	1977	Environmental Impact Evaluation: Archaeological Assessment of a Portion of the NW 1/4 of the SE 1/4 of Section 35, T6S, R3W, Murrietta 7.5' Quadrangle, Riverside County, California	Outside
00233	Kenneth Daly	1977	Environmental Impact Evaluation: Archaeological Assessment of the Hachten Property, located in a Portion of the S 1/2 of Section 35, T6S, R3W, Murrieta 7.5' Quadrangle, Riverside County, California	Outside
00294	James Baldwin	1978	Environmental Impact Evaluation: Archaeological Assessment of Tentative Parcel Map 11830, Near Rancho California, Riverside County, California	Outside
00383	Christopher E. Dover	1978	Environmental Impact Evaluation: Archaeological Assessment of Tentative Parcel Map 12030, Near Murrieta, Riverside County, California	Outside
00445	James McManus	1978	Environmental Impact Evaluation: An Archaeological Assessment of Tentative Parcel 13335, South of Keller Road, Riverside County, California	Outside
00531	James P. Barker	1979	Environmental Impact Evaluation: An Archaeological Assessment of Tentative Parcel 14725, Northwest of the Hogbacks, Southwestern Riverside County, California	Outside
00627	Renee Giansanti	1979	Environmental Impact Evaluation: An Archaeological Assessment of Tentative Parcels 15142, 15203, 15096, and Tentative Tract 14851, Paloma Valley Area of Riverside County, California	Outside

Table 1.
Previously Conducted Cultural Resource Studies Within 1.0-Mile of the Proposed Project Site

EIC Report Number (RI-)	Authors	Year	Title	Proximity to Proposed Project Site
00638	Renee Giansanti	1979	Environmental Impact Evaluation: An Archaeological Assessment of 60 Acres of Land in the Paloma Valley Area of Riverside. The Exact Location Being the SW 1/4 of Section 35, T6S, R3W, SBBM, Murrieta 7.5' Series USGS Quadrangle.	Outside
01243	Roger J. Desautels	1981	An Archaeological Assessment of TPM 17760	Outside
01258	Roger J. Desautels	1981	An Archaeological Assessment of TPM 17629	Outside
01360	Jean A. Salpas	1981	An Archaeological Assessment of Parcel 17419	Outside
01366	Christopher E. Drover	1981	Environmental Impact Evaluation: Archaeological Assessment of Tentative Parcel Map 18079	Outside
01395	Bouscaren, Stephen and Alan Davis	1982	An Archaeological Assessment of Tentative Parcel 17508, Northwest of Murrieta in Riverside County, California	Outside
01639	Scientific Resources Surveys, Inc.	1983	An Archaeological Assessment of TPM 18958	Outside
01844	Freeman, Trevor A. and David Van Horn	1987	Archaeological Survey Report: The Rose Hills Property, Paloma Valley, Riverside County, California	Outside
01845	Beth Padon	1992	Cultural Resource Assessment: Murrieta Hills, City of Murrieta, California	Outside
02059	Joan Oxendine	1983	The Luiseno Village During the Late Prehistoric Era: A Dissertation submitted in partial satisfaction of the requirements for the degree of Doctor of Philosophy in Anthropology	Outside
02117	Victor DeMunck	1987	Archaeological Assessment of Tentative Parcel 22151 near Murrieta in Riverside County, California	Outside
02118	Bissell, Ronald M.	1992	Cultural Resources Reconnaissance of the Hamilton Property, Approximately 273 Acres in Riverside County, California	Outside
02119	Mary Robbins-Wade and Timothy G. Gross	1999	Archaeological Resources Inventory and Evaluation for the Murrieta Oaks Project, Murrieta, Riverside County, California.	Outside
02344	Christopher E. Drover and Daniel McCarthy	1988	Rancho California Masterplan: A Cultural Resources Overview- Rancho California Development Company, The Bedford Group	Outside

Table 1.
Previously Conducted Cultural Resource Studies Within 1.0-Mile of the Proposed Project Site

EIC Report Number (RI-)	Authors	Year	Title	Proximity to Proposed Project Site
02506	Drover, C.E.	1989	Environmental Impact Evaluation: An Archaeological Assessment of the Greer Ranch Project Riverside County, California	Outside
02780	Christopher E. Drover	1990	A Cultural Resource Assessment: Adobe Springs II Vesting Tentative Tract 25135 near Murrieta Hot Springs, California	Outside
03117	Drover, Christopher E.	1990	Environmental Impact Evaluation: An Archaeological Assessment of Tentative Tract 26262, Murrieta, California	Outside
03118	Jean A. Keller	1995	A Phase I Cultural Resources Assessment of the Western Half of Tentative Tract Map 26262, +/- 14.5 Acres of Land in Murrieta, Riverside County, California	Outside
03119	Jean A. Keller	1995	Phase IV Archaeological Monitoring Of Demolition of the James Place Structures, Tentative Tract Map 26262, Murrieta, Riverside County, California	Outside
03584	Carolyn E. Kyle, Pete McHenry, and Dennis R. Gallegos	1993	Cultural Resource Survey Report for the California Oaks Reservoir Project Rancho California Water District, County Of Riverside, California.	Outside
03604	Carleton S. Jones	1992	The Development of Cultural Complexity Among the Luiseno: A Thesis Presented to the Department of Anthropology, California State University, Long Beach in Partial Fulfillment of the Requirements for the Degree, Master of Arts	Outside
04121	Mason, Roger, Philippe Lapin, and Wayne H. Bonner	1998	Cultural Resources Records Search and Survey Report For a Pacific Bell Mobile Services Telecommunications Facility: CM122-01, City of Murrieta, California	Outside
04207	Jean A. Keller	1998	A Phase I Cultural Resources Assessment of Murrieta Crossing (Plot Plan 98-030) +57.0 Acres of Land in Murrieta, Riverside County, California	Outside
04638	Jean A. Keller	2000	A Phase I Cultural Resources Assessment of Lincoln Ranch (TTM 29217), 245.0 Acres of Land in the City Of Murrieta, Riverside County, California	Outside
04640	Jean A. Keller	2001	A Phase I Cultural Resources Assessment of Vesting Tentative Tract Map 30280, 10.0 Acres of Land in the City of Murrieta, Riverside County, California	Outside

Table 1.
Previously Conducted Cultural Resource Studies Within 1.0-Mile of the Proposed Project Site

EIC Report Number (RI-)	Authors	Year	Title	Proximity to Proposed Project Site
05113	Horne, Melinda C.	2002	Negative Archaeological Survey Report Route 215, Post Mile 08-RIV-215-KP, Murrieta, Riverside County, California	Outside
05197	Riordan Goodwin and Robert E. Reynolds	2003	Cultural and Paleontological Resources Assessment: Lincoln Ranch Tract 29217-3, City of Murrieta, Riverside County, California	Outside
05362	Jean A. Keller	2003	A Phase I Cultural Resource Assessment of Development Plan 03-161 (The Orchard at Stone Creek) +/- 54.0 Acres of Land in the City of Murrieta, Riverside County, California	Outside
06049	David C. Hanna	2004	Archaeological Testing and Monitoring at Greer Ranch Within the City of Murrieta, Riverside County, California	Outside
06232	Bai Tang, Michael Hogan, and Josh Smallwood	2004	Historical/Archaeological Resources Survey Report: Assessor Parcel Number 359-240-038, 28175 Lee Lane, City of Murrieta, Riverside County, California	Outside
06444	Tang, Bai, Michael Hogan, Matthew Wetherbee, and John J. Eddy	2004	Historical/Archaeological Resources Survey Report: Antelope Industrial Park, City of Murrieta, Riverside County, California	Outside
06659	Hogan, Michael, Deirdre Encarnacion, and Josh Smallwood	2006	Archaeological Survey Report: Linnel Lane Overcrossing at I-215 and Meadowlark Lane Improvement, City Of Murrieta, Riverside County, California, 08-RIV-215-PM 13.0-KP 20.9, EA OH820	Outside
06733	Riordan Goodwin and Patricia Tuck	2004	Cultural Resource Monitoring Program: Lincoln Ranch Tract 29271-3, City of Murrieta, Riverside County, California	Outside
06825	Jeanette McKenna	2005	Environmental Phase I Report: Nextel Communications Facility IRENE (CA-8306-B), Project No. N-3007-04	Outside
07030	Jean A. Keller	2006	A Phase I Cultural Resources Assessment of NWC Linnel Lane & McElwain road 10-Acre Site	Outside
07041	Jordan, Stacey	2007	Archaeological Survey Report for Southern California Edison Company Relocation of the Garboni 12KV and Leon 12KV Circuits Project Riverside County, California	Outside

Table 1.
Previously Conducted Cultural Resource Studies Within 1.0-Mile of the Proposed Project Site

EIC Report Number (RI-)	Authors	Year	Title	Proximity to Proposed Project Site
07045	Anna M. Hoover	2006	An Archaeological Record Search and Survey Report on Murrieta 56, APN 392-290-002, 56.18 Acres in the City of Murrieta, Riverside County, California	Outside
07049	Robinson, Mark C.	2007	Historical Property Survey Report (08-RIV-215, PM 11.9-13.7, [KP19.30-21.03], EA 32780)	Overlapping
07476	Richardson, Karma O.K. and Robin D. Turner	2007	A Cultural Resource Assessment of the Proposed Commercial Development for 15 +/- Acres at 35070 Antelope Road, Murrieta, Riverside County, California	Outside
08278	Lorna Billat	2009	Letter Report: Proposed Cellular Tower Project(s) in Riverside County, California, Site Number(s)/Name(s): LA-3439B / TCO Cool CA2639 Antelope TCNS# 54935	Outside
08283	Lorna Billat	2009	Letter Report: Proposed Cellular Tower Project(s) in Riverside County, California, Site Number(s)/Name(s): CA-2639 / Antelope TCNS #57797	Outside
08645	Jean A. Keller	2009	A Phase I Cultural Resources Assessment of DPO 2008-2749 +/- 4.45 Acres of Land in the City of Murrieta, Riverside County, California	Outside
08665	CRM TECH	2011	Archaeological Monitoring Program For the Meadowlark Road form Clinton Keith Road to Baxter Road Project	Outside
08673	Jean A. Keller	2010	A Phase IV Cultural Resources Monitoring Report of CK-17, APN 392-290-038, Grading Permit No. 69235, +/- 2.5 Acres of Land Located at 28255 Clinton Keith Road, Murrieta, Riverside County, California	Overlapping
09024	John J. Eddy,	2013	Phase I Cultural Resources Assessment for the Clinton Keith Road Extension Project, Riverside County, California	Outside
09327	Riordan Goodwin	2015	Cultural Resources Assessment Clinton Keith Road/ McElwain Road CVS, City of Murrieta, Riverside County, California	Outside
09342	Dennis McDougall and Joan George	2015	Cultural Resource Monitoring Report for the Pacific Landing Project: Assessor's Parcel No. 900-040-021, City of Murrieta, Riverside County, California	Outside

Table 1.
Previously Conducted Cultural Resource Studies Within 1.0-Mile of the Proposed Project Site

EIC Report Number (RI-)	Authors	Year	Title	Proximity to Proposed Project Site
09477	Bai "Tom" Tang, Jesse Yorck, Ben Kerridge, and Nina Gallardo	2016	Historical/Archaeological Resources Survey Report: Assessor's Parcel No. 392-310-018, HealthSouth Rehabilitation Hospital Project, City of Murrieta, Riverside County, California	Outside
09610	Historic Resource Associates	2014	Archaeological Survey Report of the United Church of the Valley Project, AT&T Mobility Site NO. RS0276, 35921 Green Road, Murrieta, Riverside County, California 92589	Outside
09716	Joan George	2015	Cultural Resource Constraints Analysis for the Fireman's Circle Project, in the City of Murrieta, Riverside County, California	Outside
09898	Bai "Tom" Tang, Deirdre Encarnacion, Daniel Ballester, and Nina Gallardo	2016	Historical/ Archaeological Resources Survey Report: Murrieta Skilled Nursing Facility Project, Assessor's Parcel No. 392-310-002, City of Murrieta, Riverside County, California	Outside

RI-07049

Jones & Stokes was contracted by the California Department of Transportation to prepare an archaeological survey report in support of the proposed Clinton Keith Road/Interstate 215 (I-215) Interchange Improvement Project. An archaeological survey of the area did not identify any archaeological resources and the potential for undiscovered archaeological resources was determined to be low. The project was determined to have no potential adverse impacts to cultural resources.

RI-08673

Jean A. Keller was contracted by CK-17, LLP, to provide cultural resource services in support of the proposed development of residential subdivisions on approximately 2.5 acres of land in Murrieta. Services included archaeological monitoring and the preparation of a Phase IV Monitoring Report. No cultural resources were observed within the boundaries of the subject property during construction activities. No further mitigation or research was recommended at the culmination of the project.

Previously Recorded Cultural Resources

The EIC records indicate that 46 resources have been recorded within 1.0-mile (1,609 m) of the proposed project site, none of which intersect or overlap the proposed project site. Six of the 46 resources are historic period resources including three refuse scatters, two residences, and one concrete foundation with an associated refuse scatter. The remaining 40 resources are prehistoric resources including 16 bedrock milling features, nine lithic scatters, 12 prehistoric lithic or groundstone isolates, one habitation site, and two processing sites with bedrock milling features and associated lithic scatters. Table 2, below, summarizes all 46 cultural resources identified.

Table 2.
Previously Recorded Cultural Resources Within 1.0-Mile of the Proposed Project Site

Primary Number (P-33-)	Trinomial (CA-RIV-)	Period	NRHP Eligibility	Year and Record By	Descriptions	Proximity To Proposed Project Site
000629	000629	Prehistoric	Not evaluated	1973 (J. Humbert, S. Hammond, C.E.F.U.)	Lithic scatter with associated bedrock mortars	Outside
000637	000637	Prehistoric	Not evaluated	1973 (J. Humbert, S. Hammond, C.E.F.U.)	Lithic scatter with associated bedrock mortars	Outside
000638	000638	Prehistoric	Not evaluated	J. Humbert, S. Hammond (1973)	Processing site; dense lithic scatter and 15 bedrock mortars; possible habitation site	Outside
001364	001364	Prehistoric	Not evaluated	1976 (Hildebrand, Morin and Waldron, ARU); 1981 (Jean A. Salpas, ARU)	Milling station with three milling surfaces	Outside
001375	001375	Prehistoric	Not evaluated	1976 (Morin, Waldron, Pettus, Hildebrand, ARU); 1981 (Jean A. Salpas, ARU)	Milling station with two milling surfaces	Outside

Table 2.
Previously Recorded Cultural Resources Within 1.0-Mile of the Proposed Project Site

Primary Number (P-33-)	Trinomial (CA-RIV-)	Period	NRHP Eligibility	Year and Record By	Descriptions	Proximity To Proposed Project Site
001376	001376	Prehistoric	Not evaluated	1976 (Morin, Waldron, Pettus and Hildebrand, ARU); 1981 (Jean A. Salpas, ARU)	Milling station with two milling surfaces	Outside
001377	001377	Prehistoric	Not evaluated	1976 (Morin, Waldron, Hildebrand and Pettus, ARU); 1981 (Jean A. Salpas, ARU); 2007 (Koji Tsunoda, Jones and Stokes)	Milling station; was not relocated in most recent site visit	Outside
002190	002190	Prehistoric	Not evaluated	1981 (T. Banks, Scientific Resource Surveys, Inc., Santa Ana, CA.); 2001 (David C. Hanna, Jr., SWCA Environmental Consultants, Mission Viejo, CA.)	Temporary habitation site consisting of dense lithic scatter and food processing stations	Outside

Table 2.
Previously Recorded Cultural Resources Within 1.0-Mile of the Proposed Project Site

Primary Number (P-33-)	Trinomial (CA-RIV-)	Period	NRHP Eligibility	Year and Record By	Descriptions	Proximity To Proposed Project Site
003056	003056	Prehistoric	Found ineligible through survey process	1987 (Victor C. de Munk, Archaeological Research Unit, UC Riverside, CA.); 1992 (Ron Bissell and Ken Becker, RMW Paleo Associates, Inc., Mission Viejo, CA.); 1999 (Robbins-Wade, Affinis, El Cajon, CA.)	Food processing station with milling surfaces, ground stone, and lithic scatter	Outside
003684	003684	Prehistoric	Not evaluated	1989 (C.E. Drover and Andy Jackson)	Lithic scatter	Outside
004104	004104	Prehistoric	Not evaluated	1990 (C.E. Drover and D.M. Smith, Christopher Drover 13522 Malena Dr. Tustin, CA 92680)	Lithic scatter with groundstone	Outside
004905	004905	Historic	Ineligible	1999 (Robbins-Wade, Gross, Van Wormer, Affinis)	Historic refuse scatter dating to the 1920s	Outside
009703	006469	Prehistoric	Not evaluated	2000 (Jean A. Keller, Cultural Resources Consultant)	Bedrock milling feature consisting of two mortars and one milling slick on a single granitic bedrock outcrop	Outside

Table 2.
Previously Recorded Cultural Resources Within 1.0-Mile of the Proposed Project Site

Primary Number (P-33-)	Trinomial (CA-RIV-)	Period	NRHP Eligibility	Year and Record By	Descriptions	Proximity To Proposed Project Site
009704	006470	Prehistoric	Not evaluated	2000 (Jean A. Keller, Cultural Resources Consultant)	Bedrock milling feature consisting of one milling slick on a granitic bedrock outcrop	Outside
009705	006471	Prehistoric	Not evaluated		Bedrock milling feature consisting of two milling slick on adjacent granitic bedrock outcrops	Outside
011238	–	Prehistoric	Not evaluated	2001 (CW Bouscaren, MG Espinoza, and KA Hintzman, LSA Assoc., Inc.)	Bedrock milling feature consisting of three milling slicks on a cluster of bedrock outcrops	Outside
011239	–	Prehistoric	Not evaluated		Sparse lithic scatter	Outside
011240	–	Historic	Not evaluated	2001 (CW Bouscaren, MG Espinoza, KA Hintzman, LSA, Assoc., Inc.)	Fallen wooden structure with a concrete foundation and an associated can scatter	Outside
013304	007405	Prehistoric	Not evaluated	Sal Boites (2005)	Two bedrock milling features with associated lithic and groundstone	Outside
013332	007424	Prehistoric	Not evaluated	2004 (Robert Porter, CRM TECH); 2004 (John J. Eddy)	Bedrock milling slick	Outside

Table 2.
Previously Recorded Cultural Resources Within 1.0-Mile of the Proposed Project Site

Primary Number (P-33-)	Trinomial (CA-RIV-)	Period	NRHP Eligibility	Year and Record By	Descriptions	Proximity To Proposed Project Site
013334	007426	Prehistoric	Not evaluated	2004 (Robert Porter, CRM TECH); 2004 (John J. Eddy)	Two bedrock milling features	Outside
013335	007427	Prehistoric	Not evaluated	2004 (Michael Lozano, CRM TECH)	One bedrock milling feature consisting of two milling slicks; the site was not relocated during its most recent update	Outside
013363	–	Prehistoric	Isolate: Ineligible	2004 (Robert Porter, CRM TECH)	Two bedrock milling features, each containing one milling slick	Outside
013398	–	Prehistoric	Isolate: Ineligible	2004 (Clarie Fritz and Patricia Tuck, LSA Associates)	Isolated quartz mano	Outside
013976	–	Prehistoric	Isolate: Ineligible	(Ballester, Daniel, CRM Tech)	Isolated milky quartz biface blade	Outside
014358	–	Prehistoric	Isolate: Ineligible	2004 (Eddy, John J., CRM Tech)	Isolated metate fragment	Outside
015146	008055	Prehistoric	Not evaluated	2006 (Gillean, William R., Author)	Two bedrock mortars	Outside
015330	–	Historic	Determined ineligible through Section 106 process	2006 (Smallwood, Josh, CRM Tech)	Wood-framed residence at 35530 Antelope Road	Outside
015331	–	Historic	Isolate: Ineligible	2006 (Smallwood, Josh, CRM Tech)	Wood-framed residence at 35500 Antelope Road	Outside

Table 2.
Previously Recorded Cultural Resources Within 1.0-Mile of the Proposed Project Site

Primary Number (P-33-)	Trinomial (CA-RIV-)	Period	NRHP Eligibility	Year and Record By	Descriptions	Proximity To Proposed Project Site
019791	010075	Prehistoric	Not evaluated	2011 (R. Porter, CRM TECH)	Three granite boulders each with a single milling slick, associated lithic scatter, and three groundstone artifacts	Outside
019849	010098	Prehistoric	Not evaluated	2011 (R. Porter, CRM TECH)	Four quartz flakes and one piece of quartz shatter; site has been destroyed since recordation	Outside
021027	010892	Prehistoric	Not evaluated	AECOM 2012	Sparse lithic scatter	Outside
023904	011739	Prehistoric	Not evaluated	2014 (K. Moslak, C, Yearyean, Applied EarthWorks)	Lithic Scatter with one groundstone metate fragment	Outside
023971	011777	Historic	Not evaluated	2014 (Andrew R Pigniolo, Laguna Mountain Environmental)	Historic refuse scatter	Outside
023972	011778	Prehistoric	Not evaluated	2014 (Andrew R Pigniolo, Laguna Mountain Environmental, Inc.)	Sparse lithic scatter	Outside
023973		Prehistoric	Isolate: Ineligible	2014 (Andrew R Pigniolo, Laguna Mountain Environmental, Inc.)	Isolated scraper	Outside

Table 2.
Previously Recorded Cultural Resources Within 1.0-Mile of the Proposed Project Site

Primary Number (P-33-)	Trinomial (CA-RIV-)	Period	NRHP Eligibility	Year and Record By	Descriptions	Proximity To Proposed Project Site
024132	011871	Historic	Not evaluated	2015 (Riordan Goodwin, LSA Associates, Inc.)	Historic refuse scatter	Outside
024619	–	Prehistoric	Isolate: Ineligible	Max Jewett, Atkins (2014)	Isolated quartz chopper	Outside
024620	–	Prehistoric	Isolate: Ineligible	Max Jewett, Atkins (2014)	Isolated milling slick	Outside
024622	–	Prehistoric	Isolate: Ineligible	Max Jewett, Atkins (2014)	Isolated quartz chopper	Outside
024624	–	Prehistoric	Isolate: Ineligible	Max Jewett, Atkins (2014)	Isolated quartz projectile point tip	Outside
024632	–	Prehistoric	Isolate: Ineligible	Max Jewett, Atkins (2014)	Isolated quartz flake	Outside
024634	–	Prehistoric	Isolate: Ineligible	Max Jewett, Atkins (2014)	Isolated quartz utilized flake	Outside
024638	–	Prehistoric	Isolate: Ineligible	Max Jewett, Atkins (2014)	Isolated quartz pressure flake	Outside
024646	012195	Prehistoric	Not evaluated	2014 (Max Jewett, Atkins, Plute/BP Murrieta Hills, LLC)	Bedrock milling slicks with associated lithic and groundstone fragments	Outside

Native American Coordination

Dudek contacted the NAHC on January 12, 2018 and requested a review of the SLF. A response letter was received via email from the NAHC on February 20, 2018. The results of the Sacred Lands File search indicated the presence of Native American cultural resources within the proposed project site and stated that the Pechanga Band of Luiseño Indians should be contacted for additional information on the resources identified within the proposed project site. The NAHC suggested contacting 25 Native American individuals and/or tribal organizations who may have direct knowledge of cultural resources in or near the proposed project (Table 3; Appendix C). Dudek contacted all groups and/or individuals identified by the NAHC. To date, four response have been received (see Confidential Appendix D). This outreach was conducted for informational purposes

only and does not necessarily constitute formal government-to-government consultation as specified by AB 52. A discussion of the AB 52 consultation is included in the Tribal Cultural Resources section of the Environmental Impact Report (EIR) for the project.

Table 3.
Native American Heritage Commission-Listed Native American Contacts

Native American Tribal Representatives	Method of Notification/Date	Response Received
Temet Aguilar, Chairperson Pauma Band of Luiseno Indians - Pauma & Yuima Reservation	Standard Mail; November 5, 2018	None to date
Scott Cozart, Chairperson Soboba Band of Luiseno Indians	Standard Mail; November 5, 2018	*Response received via email on January 8, 2019 from Joseph Ontiveros, Cultural Resource Department, and Jessica Valez, Cultural Resource Specialist.
John Flores, Environmental Coordinator San Pasqual Band of Mission Indians	Standard Mail; November 5, 2018	None to date
Patricia Garcia-Plotkin, Director Agua Caliente Band of Cahuilla Indians	Standard Mail; November 5, 2018	*Response received via email on November 21, 2018 from Tribal representative, Lacy Padilla, Archaeological Technician
Michael Garcia, Vice Chairperson Ewiiaapaayp Tribal Office	Standard Mail; November 5, 2018	None to date
Carrie Garcia, Cultural Resources Manager Soboba Band of Luiseno Indians	Standard Mail; November 5, 2018	*Response received via email on January 8, 2019 from Joseph Ontiveros, Cultural Resource Department, and Jessica Valez, Cultural Resource Specialist.
Shasta Gaughen, Tribal Historic Preservation Officer Pala Band of Mission Indians	Standard Mail; November 5, 2018	None to date
Ralph Goff, Chairperson Campo Band of Mission Indians	Standard Mail; November 5, 2018	None to date
Jeff Grubbe, Chairperson Agua Caliente Band of Cahuilla Indians	Standard Mail; November 5, 2018	*Response received via email on November 21, 2018 from Tribal representative, Lacy Padilla, Archaeological Technician

Table 3.
Native American Heritage Commission-Listed Native American Contacts

Native American Tribal Representatives	Method of Notification/Date	Response Received
Julie Hagen Viejas Band of Kumeyaay Indians	Standard Mail; November 5, 2018	*Response received via standard mail on November 19, 2018 from Tribal representative, Ray Teran, Resource Management.
Lisa Haws, Cultural Resources Manager Sycuan Band of Kumeyaay Nation	Standard Mail; November 5, 2018	None to date
Allen E. Lawson, Chairperson San Pasqual Band of Mission Indians	Standard Mail; November 5, 2018	None to date
Mark Macarro, Chairperson Pechanga Band of Mission Indians	Standard Mail; November 5, 2018	None to date
Paul Macarro, Cultural Resources Coordinator Pechanga Band of Mission Indians	Standard Mail; November 5, 2018	None to date
Cody J. Martinez, Chairperson Sycuan Band of the Kumeyaay Nation	Standard Mail; November 5, 2018	None to date
Bo Mazzetti, Chairperson Rincon Band of Mission Indians	Standard Mail; November 5, 2018	*Response received via email on December 19, 2018 from Tribal Representative, Destiny Colocho, Cultural Resource Manager and Tribal Historic Preservation Officer.
Jim McPherson, Tribal Historic Preservation Officer Rincon Band of Mission Indians	Standard Mail; November 5, 2018	*Response received via email on December 19, 2018 from Tribal Representative, Destiny Colocho, Cultural Resource Manager and Tribal Historic Preservation Officer.
Javaughn Miller, Tribal Administrator La Posta Band of Mission Indians	Standard Mail; November 5, 2018	None to date
Joseph Ontiveros, Cultural Resource Department Soboba Band of Luiseno Indians	Standard Mail; November 5, 2018	*Response received via email on January 8, 2019 from Joseph Ontiveros, Cultural Resource Department, and Jessica Valez, Cultural Resource Specialist.
Gwendolyn Parada, Chairperson La Posta Band of Mission Indians	Standard Mail; November 5, 2018	None to date

Table 3.
Native American Heritage Commission-Listed Native American Contacts

Native American Tribal Representatives	Method of Notification/Date	Response Received
Erica Pinto, Chairperson Jamul Indian Village	Standard Mail; November 5, 2018	None to date
Robert Pinto, Chairperson Ewiaapaayp Tribal Office	Standard Mail; November 5, 2018	None to date
Thomas Rodriguez, Chairperson La Jolla Band of Luiseno Indians	Standard Mail; November 5, 2018	None to date
Angela Elliot Santos, Chairperson Manzanita Band of Kumeyaay Nation	Standard Mail; November 5, 2018	None to date
Robert Welch, Chairperson Viejas Band of Kumeyaay Indians	Standard Mail; November 5, 2018	*Response received via standard mail on November 19, 2018 from Tribal representative, Ray Teran, Resource Management.
*Represents a response received from a Tribal representative on behalf of a Tribal organization and is listed for each Native American individual from that same Tribe.		

Historic Topographic Map and Aerial Photography Review

Dudek consulted historic topographic maps and aerial photographs to understand development of the proposed project site and surrounding properties. Topographic maps are available from 1943, 1955, 1962, 1971, 1975, 1979, 1986, 2012, and 2015 (NETR 2018a). Historic aerials are available for the years 1938, 1967, 1978, 1996, 2002, 2005, 2009, 210, 2012, 2014, and 2016 (NETR 2018b).

The topographic map from 1943 shows that there was a road where the I-215 now runs, just west of the proposed project site. By 1955, the I-215 had been built; however, no significant development within the area is apparent based on this map. Topographic maps from 1962 to present show an increase in roads throughout the area though general development history is difficult to gauge from these maps.

Aerial images depicting the proposed project site show that in 1938 the only development within the area was a north-south running road, which became the I-215 freeway sometime in the 1950s. Aerial images from 1967 show no development within the proposed project site. There are a few roads to the east of the I-215 at this time and some possible residential development to the north; however, the overall proposed project site and general vicinity is completely undeveloped. The aerials from 1978 show the apparent construction of the Clinton Keith Road on ramp and off

ramp. By 1996, there are several small developments to the north and east of the proposed project site, though there is no developments within the proposed project site. Clinton Keith Road, which runs south of the proposed project site, appears to be a dirt road in 1996; though it appears to be paved west of the freeway. Between 2002 and 2005, a large amount of development took place just east of the proposed project site, where a large residential subdivision and a high school were built. Additionally, the North Country Sand and Gravel, immediately east of the proposed project site, is shown in the 2002 aerial. There were also several residential subdivisions built to the southwest and northwest of the proposed project site and a minor increase in residential development to the east and south of the proposed project site since 2005. Presently, the proposed project site remains undeveloped vacant land.

FIELD METHODOLOGY

Dudek archaeologists conducted an intensive-level pedestrian survey of the proposed project site on February 13, 2018. The survey was conducted to identify and record any unknown cultural resources within the proposed project site. The survey was conducted using standard archaeological procedures and techniques that meet the Secretary of Interior's standards and guidelines for cultural resources inventory. Survey transects were spaced no more than 15 meters wide and oriented south–north across accessible areas of the proposed project site. Where transects were not feasible, a mixed approach (opportunistic survey) was utilized, selectively examining open ground surface where possible. The archaeologists examined the ground surface for the presence of prehistoric artifacts (e.g., flaked stone tools, tool-making debris, stone milling tools), historical artifacts (e.g., metal, glass, ceramics), sediment discolorations that might indicate the presence of a cultural midden, and depressions and other features that might indicate the former presence of structures or buildings.

All fieldwork was documented using field notes and iPad technology with close-scale field maps, and aerial photographs. Location-specific photographs were taken using an Apple 3rd Generation IPad equipped with 8 mega-pixel resolution and georeferenced PDF maps of the proposed project site. All field notes, photographs, and records related to the current study are on file at Dudek's Pasadena, California office.

SURVEY RESULTS

No archaeological or historic built environment resources were identified during the intensive-level survey of the proposed project site. Ground visibility within the proposed project site was poor (approximately 15%) due to dense grasses and weeds covering the majority of the proposed project site (Appendix A: Figures 2 and 3). Disturbances that have affected the proposed project

site include the construction, maintenance, and upgrades to Antelope Road, an associated access road along the eastern side of the proposed project site, the construction of I-215 and an associated on ramp to the west, the construction of Clinton Keith Road to the south, and the continued excavation associated with the North County Sand & Gravel lot, located immediately east of the proposed project site. Additionally, several all-terrain vehicle tracks are present throughout the proposed project site and evidence of modern refuse as a result of opportunistic road-side dumping was observed.

SUMMARY AND MANAGEMENT RECOMMENDATIONS

No cultural resources were identified within the proposed project site or the immediate vicinity through the EIC records search or during the intensive-level pedestrian survey. However, the NAHC SLF review indicated that Native American sites have been identified within the proposed project site that may be impacted by the proposed project and to contact the Pechanga Band Luiseño Indians for more information about these sites. Furthermore, several prehistoric archaeological sites have been recorded within 1.0-mile (1,608 m) of the proposed project site.

In consideration of the known sensitivity of the surrounding area for prehistoric resources, it is recommended that formal Native American consultation with the Pechanga Band of Luiseño Indians and periodic archaeological and Native American monitoring be conducted. A qualified archaeologist, meeting the Secretary of the Interior's Professional Qualification Standards, should oversee and adjust monitoring efforts as needed (increase, decrease, or discontinue monitoring frequency) based on the observed potential for construction activities to encounter cultural deposits or material and as approved by the City. Following completion of construction, the qualified archaeologist should provide an archaeological monitoring report to the City and EIC with the results of the cultural monitoring program. Furthermore, prior to any ground-disturbing work, Dudek recommends that all construction personnel undergo workers education awareness program (WEAP) training to ensure that any unanticipated archaeological discoveries are treated appropriately in addition to the standard protection measures for unanticipated discoveries for archaeological resources and human remains during ground-disturbing activities that are provided below. All activities would be conducted in accordance with regulatory requirements. With the implementation of these measures, the proposed project will have a less than significant impact on cultural resources.

Unanticipated Discovery of Archaeological Resources

In the event that archaeological resources (sites, features, or artifacts) are exposed during construction activities for the proposed project, all construction work occurring within 100 feet of

the find shall immediately stop until a qualified archaeologist, meeting the Secretary of the Interior's Professional Qualification Standards, can evaluate the significance of the find and determine whether or not additional study is warranted. Depending upon the significance of the find, the archaeologist may simply record the find and allow work to continue. If the discovery proves significant under CEQA, additional work such as preparation of an archaeological treatment plan, testing, or data recovery may be warranted.

Unanticipated Discovery of Human Remains

In accordance with Section 7050.5 of the California Health and Safety Code, if human remains are found, the Los Angeles County Coroner shall be notified within 24 hours of the discovery. No further excavation or disturbance of the site or any nearby area reasonably suspected to overlie adjacent remains shall occur until the County Coroner has determined, within two working days of notification of the discovery, the appropriate treatment and disposition of the human remains. If the County Coroner determines that the remains are, or are believed to be, Native American, s/he shall notify the NAHC in Sacramento within 48 hours. In accordance with California Public Resources Code, Section 5097.98, the NAHC must immediately notify those persons it believes to be the most likely descended (MLD) from the deceased Native American. The MLD shall complete their inspection within 48 hours of being granted access to the site. The designated Native American representative would then determine, in consultation with the property owner, the disposition of the human remains.

Please do not hesitate to contact me if you have any questions about this report, please contact me by email at lkry@dudek.com or phone at (626) 590-1739 or Micah J. Hale by email at mhale@dudek.com or phone at (760) 479-4276.

Sincerely,

DUDEK
Linda Kry, BA
Archaeologist

DUDEK
Micah J. Hale, Ph.D., RPA
Archaeologist

cc: Adriane Dorrler, Shelah Riggs, Rachel Struglia, Dana Link-Herrera, and Patrick Cruz

Att: Appendix A: Figures
Appendix B: Confidential EIC Records Search Information

Appendix C: NAHC SLF Results
Appendix D: Confidential Tribal Correspondence

REFERENCES CITED

California Office of Historic Preservation. 2018. Electronic document: http://ohp.parks.ca.gov/?page_id=23317. Accessed February, 2018.

City of Murrieta. 2011. Murrieta General Plan 2035. Available at https://www.murrietaca.gov/departments/planning/general.asp.

County of Riverside. 2013. County of Riverside General Plan, Chapter 5: Multipurpose Open Space Element. Riverside County Planning Department. Pp.OS40-OS43.

NETR (Nationwide Environmental Title Research LLC). 2018a. Historic Topographical Maps of Los Angeles. Accessed March 2018. https://www.historicaerials.com/viewer.

NETR. 2018b. Historic Aerial Photographs of Los Angeles. Accessed March 2018. https://www.historicaerials.com/viewer.

APPENDIX A

Figures

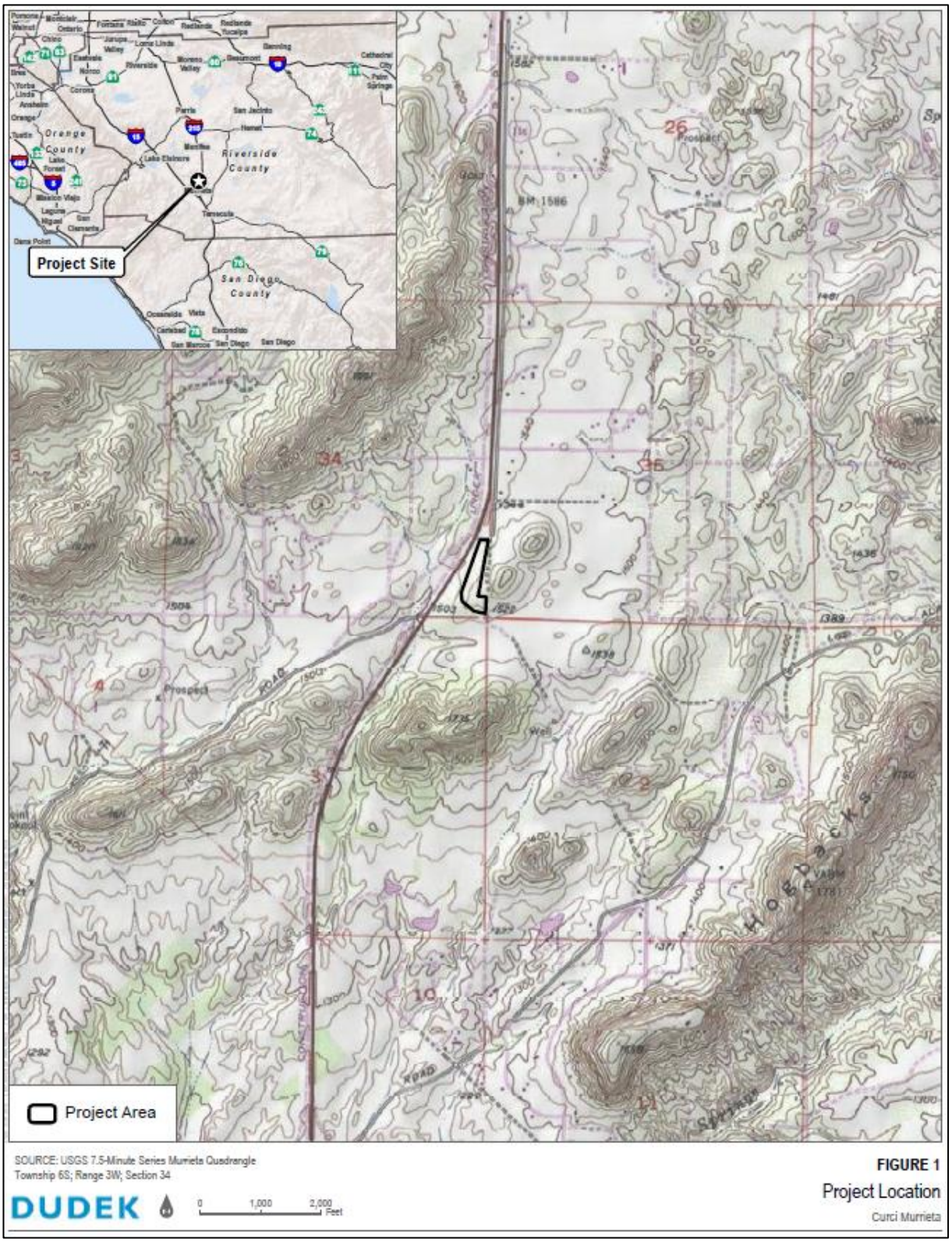


Figure 1. Project Location Map



Figure 2. Overview from the northeast corner of the project area, view facing north.



Figure 3. Overview from the southeast corner of the project area, view facing north.

APPENDIX B

CONFIDENTIAL

EIC Records Search Results

APPENDIX C

NAHC SLF Results

Sacred Lands File & Native American Contacts List Request

NATIVE AMERICAN HERITAGE COMMISSION
1550 Harbor Blvd, Suite 100
West Sacramento, CA 95501
(916) 373-3710
(916) 373-5471 – Fax
nahc@nahc.ca.gov

Information Below is Required for a Sacred Lands File Search

Project: Curci Murrieta

County: Riverside

USGS Quadrangle

Name: Murrieta (see attached map)

Township: 6S, 7S Range: 3W Section(s): 2, 3, 34, 35

Company/Firm/Agency:

Dudek

Contact Person: Elizabeth Denniston

Street Address: 38 North Marengo Avenue

City: Pasadena Zip: 91101

Phone: (626) 375-7682 Extension: N/A

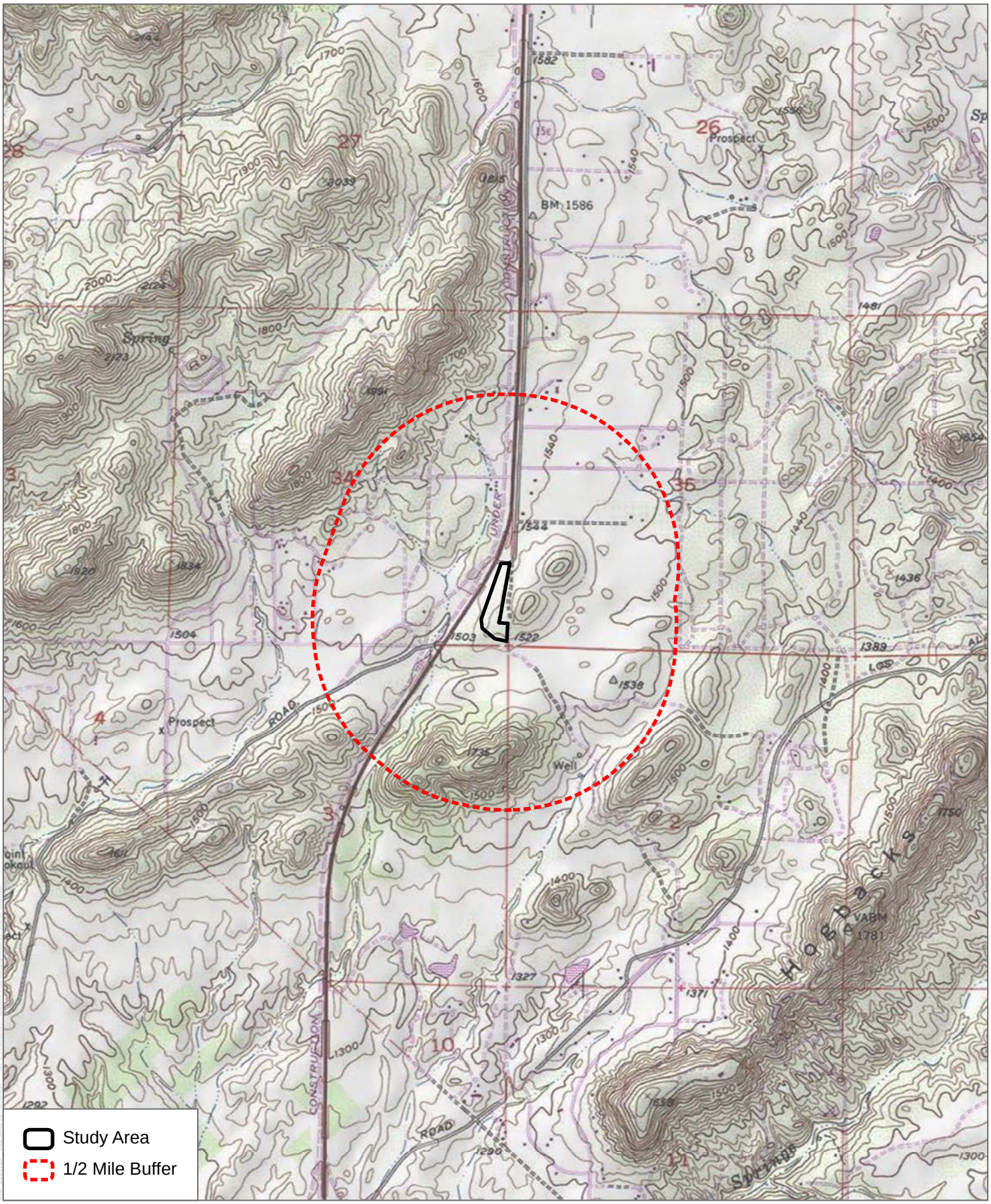
Fax: (760) 632-0164

Email: edenniston@dudek.com

Project Description:

The Curci Murrieta project involves the grading, construction and operation of a hotel, two restaurants , and a retail store within a 6.2-acre property, located at the northeast corner of the Interstate 215 (I-215) and Clinton Keith Road, within the City of Murrieta.

☑ Project Location Map is attached



SOURCE: SOURCE: USGS 7.5-Minute Series Murrieta Quadrangle
Township 6S, 7S; Range 3W; Sections 2, 3, 34, 35

DUDEK

0 1,000 2,000 Feet
0 250 500 Meters
1:24,000

Records Search Map

Curci Murrieta

NATIVE AMERICAN HERITAGE COMMISSION
Environmental and Cultural Department
1550 Harbor Blvd., ROOM 100
West SACRAMENTO, CA 95691
(916) 373-3710

February 20, 2018

Elizabeth Denniston
Dudek

Sent by E-mail: edenniston@dudek.com

RE: Proposed Curci Murrieta Project, City of Murrieta; Murrieta USGS Quadrangle, Riverside County, California

Dear Ms. Denniston:

Attached is a list of tribes that have cultural and traditional affiliation to the areas of potential project effect (APE) referenced above. I suggest you contact all of those listed, if they cannot supply information, they might recommend others with specific knowledge. The list should provide a starting place to locate areas of potential adverse impact within the APE. By contacting all those on the list, your organization will be better able to respond to claims of failure to consult, as may be required under particular state statutes. If a response has not been received within two weeks of notification, the Native American Heritage Commission (NAHC) requests that you follow-up with a telephone call to ensure that the project information has been received.

THIS INFORMATION IS CONFIDENTIAL! PLEASE DO NOT INCLUDE IN PUBLIC DOCUMENTS.
A record search of the Native American Heritage Commission (NAHC) *Sacred Lands File* (SLF) was completed for the area of potential project effect (APE) for the above referenced project. Sites have been located within the APE you provided that may be impacted by the project. Please immediately contact the Pechanga Band of Luiseño Indians at (951) 770-6300 for more information about these sites.

If you receive notification of change of addresses and phone numbers from any of these individuals or groups, please notify me. With your assistance, we are able to assure that our lists contain current information. If you have any questions, please contact me at my email address: gayle.totton@nahc.ca.gov.

Sincerely,

Gayle Totton

Gayle Totton, M.A., PhD.
Associate Governmental Program Analyst
(916) 373-3714

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Native American Heritage Commission
Native American Contact List
Riverside County
2/20/2018

Agua Caliente Band of Cahuilla Indians
Jeff Grubbe, Chairperson
5401 Dinah Shore Drive — Cahuilla
Palm Springs, CA, 92264 — Luiseno
Phone: (760) 699 - 6800
Fax: (760) 699-6919

Agua Caliente Band of Cahuilla Indians
Patricia Garcia-Plotkin, Director
5401 Dinah Shore Drive — Cahuilla
Palm Springs, CA, 92264 — Luiseno
Phone: (760) 699 - 6907
Fax: (760) 699-6924
ACBCI-THPO@aguacaliente.net

Campo Band of Mission Indians
Ralph Goff, Chairperson
36190 Church Road, Suite 1 — Kumeyaay
Campo, CA, 91906
Phone: (619) 478 - 9046
Fax: (619) 478-5818
rgoff@campo-nsn.gov

Ewiiaapaayp Tribal Office
Michael Garcia, Vice Chairperson
4054 Willows Road — Kumeyaay
Alpine, CA, 91901
Phone: (619) 445 - 6315
Fax: (619) 445-9126
michaelg@leaningrock.net

Ewiiaapaayp Tribal Office
Robert Pinto, Chairperson
4054 Willows Road — Kumeyaay
Alpine, CA, 91901
Phone: (619) 445 - 6315
Fax: (619) 445-9126

Jamul Indian Village
Erica Pinto, Chairperson
P.O. Box 612 — Kumeyaay
Jamul, CA, 91935
Phone: (619) 669 - 4785
Fax: (619) 669-4817

La Jolla Band of Luiseno Indians
Thomas Rodriguez, Chairperson
22000 Highway 76 — Luiseno
Pauma Valley, CA, 92061
Phone: (760) 742 - 3771

La Posta Band of Mission Indians
Javaughn Miller, Tribal Administrator
8 Crestwood Road — Kumeyaay
Boulevard, CA, 91905
Phone: (619) 478 - 2113
Fax: (619) 478-2125
jmiller@LPtribe.net

La Posta Band of Mission Indians
Gwendolyn Parada, Chairperson
8 Crestwood Road — Kumeyaay
Boulevard, CA, 91905
Phone: (619) 478 - 2113
Fax: (619) 478-2125
LP13boots@aol.com

Manzanita Band of Kumeyaay Nation
Angela Elliott Santos, Chairperson
P.O. Box 1302 — Kumeyaay
Boulevard, CA, 91905
Phone: (619) 766 - 4930
Fax: (619) 766-4957

Pala Band of Mission Indians
Shasta Gaughen, Tribal Historic Preservation Officer
PMB 50, 35008 Pala Temecula Rd. — Cupeno, Luiseno
Pala, CA, 92059
Phone: (760) 891 - 3515
Fax: (760) 742-3189
sgaughen@palatribe.com

This list is current only as of the date of this document. Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resource Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed Curci Murrieta Project, Riverside County.

Native American Heritage Commission
Native American Contact List
Riverside County
2/20/2018

Pauma Band of Luiseno Indians - Pauma & Yuima Reservation
Temet Aguilar, Chairperson
P.O. Box 369 — Luiseno
Pauma Valley, CA, 92061
Phone: (760) 742 - 1289
Fax: (760) 742-3422

Pechanga Band of Mission Indians
Paul Macarro, Cultural Resources Coordinator
P.O. Box 1477 — Luiseno
Temecula, CA, 92593
Phone: (951) 770 - 6306
Fax: (951) 506-9491
pmacarro@pechanga-nsn.gov

Pechanga Band of Mission Indians
Mark Macarro, Chairperson
P.O. Box 1477 — Luiseno
Temecula, CA, 92593
Phone: (951) 770 - 6000
Fax: (951) 695-1778
epreston@pechanga-nsn.gov

Rincon Band of Mission Indians
Bo Mazzetti, Chairperson
1 West Tribal Road — Luiseno
Valley Center, CA, 92082
Phone: (760) 749 - 1051
Fax: (760) 749-5144
bomazzetti@aol.com

Rincon Band of Mission Indians
Jim McPherson, Tribal Historic Preservation Officer
1 West Tribal Road — Luiseno
Valley Center, CA, 92082
Phone: (760) 749 - 1051
Fax: (760) 749-5144
vwhipple@rincontribe.org

San Pasqual Band of Mission Indians
Allen E. Lawson, Chairperson
P.O. Box 365 — Kumeyaay
Valley Center, CA, 92082
Phone: (760) 749 - 3200
Fax: (760) 749-3876
allenl@sanpasqualtribe.org

San Pasqual Band of Mission Indians
John Flores, Environmental Coordinator
P. O. Box 365 — Kumeyaay
Valley Center, CA, 92082
Phone: (760) 749 - 3200
Fax: (760) 749-3876
johnf@sanpasqualtribe.org

Soboba Band of Luiseno Indians
Carrie Garcia, Cultural Resources Manager
P. O. Box 487 — Cahuilla
San Jacinto, CA, 92583 — Luiseno
Phone: (951) 654 - 2765
Fax: (951) 654-4198
carrieg@soboba-nsn.gov

Soboba Band of Luiseno Indians
Joseph Ontiveros, Cultural Resource Department
P.O. BOX 487 — Cahuilla
San Jacinto, CA, 92581 — Luiseno
Phone: (951) 663 - 5279
Fax: (951) 654-4198
jontiveros@soboba-nsn.gov

Soboba Band of Luiseno Indians
Scott Cozart, Chairperson
P. O. Box 487 — Cahuilla
San Jacinto, CA, 92583 — Luiseno
Phone: (951) 654 - 2765
Fax: (951) 654-4198

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This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed Curci Murrieta Project, Riverside County.

Sycuan Band of the Kumeyaay Nation
Cody J. Martinez, Chairperson
1 Kwaaypaay Court — Kumeyaay
El Cajon, CA, 92019
Phone: (619) 445 - 2613
Fax: (619) 445-1927
ssilva@sycuan-nsn.gov

Sycuan Band of the Kumeyaay Nation
Lisa Haws, Cultural Resources Manager
1 Kwaaypaay Court — Kumeyaay
El Cajon, CA, 92019
Phone: (619) 312 - 1935
lhaws@sycuan-nsn.gov

Viejas Band of Kumeyaay Indians
Julie Hagen,
1 Viejas Grade Road — Kumeyaay
Alpine, CA, 91901
Phone: (619) 445 - 3810
Fax: (619) 445-5337
jhagen@viejas-nsn.gov

Viejas Band of Kumeyaay Indians
Robert Welch, Chairperson
1 Viejas Grade Road — Kumeyaay
Alpine, CA, 91901
Phone: (619) 445 - 3810
Fax: (619) 445-5337
jhagen@viejas-nsn.gov

This list is current only as of the date of this document. Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resource Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed Curci Murrieta Project, Riverside County.

APPENDIX D

CONFIDENTIAL

Tribal Coordination

Appendix E

Geotechnical Report

GEOTECHNICAL PROFESSIONALS INC

PRELIMINARY GEOTECHNICAL INVESTIGATION
PROPOSED VINEYARD/VAL VISTA CENTER
NEC CLINTON KEITH ROAD AND 215 FREEWAY
MURRIETA, CALIFORNIA

Prepared for:
CK 17 LP
c/o Retail Development Advisors
27890 Clinton Keith Road, Suite D-490
Murrieta, California 92562

Prepared by:
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Cypress, California 90630
(714) 220-2211

Project No. 2833.I

September 7, 2017

GPI GEOTECHNICAL PROFESSIONALS INC

September 7, 2017

CK 17 LP
c/o Retail Development Advisors
27890 Clinton Keith Road, Suite D-490
Murrieta, California 92562

Attention: Mr. Allan Davis

Subject: Report of Preliminary Geotechnical Investigation
Proposed Vineyard/Val Vista Center
NEC Clinton Keith Road and 215 Freeway
Murrieta, California
GPI Project No. 2833.I

Dear Mr. Davis:

Transmitted herewith is our report of preliminary geotechnical investigation for the subject project. The report presents our evaluation of the foundation conditions at the site and recommendations for design and construction.

We are providing this report in an electronic format. Further copies of the report can be provided if required for City submittal upon request.

We appreciate the opportunity of offering our services on this project and look forward to seeing the project through its successful completion. Feel free to call us if you have any questions regarding our report or need further assistance.

Very truly yours,
Geotechnical Professionals Inc.

Paul R. Schade, G.E.
Principal

PRS:sph

2833-I-01L.doc

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1.0 INTRODUCTION

1.1 GENERAL

This report presents the results of a preliminary geotechnical investigation performed by Geotechnical Professionals Inc. (GPI) for the proposed Vineyard/Val Vista Center development to be located near the northeast corner of Clinton Keith Road and the 215 Freeway in Murrieta, California. The geographical site location is shown on the Site Location Map, Figure 1.

1.2 PROJECT DESCRIPTION

The Vineyard project will be a mixed-use development extending from the northbound I-215 on-ramp to an existing residential development east of the newly planned Warm Springs Parkway alignment on the north side of Clinton Keith Road. The subject site is approximately 46 acres in size. Based on a conceptual site plan provided by CK-17, the proposed development will consist of a 4-story hotel, a Costco warehouse, numerous 1-story retail pads, and associated surface parking. The Costco parcel is being investigated by others and will not be included in our studies. The hotel building will be approximately 91,000 square feet in plan area while the 1-story retail buildings will vary from about 3,500 to 34,000 square feet in plan area. The proposed site configuration and limits of the development covered by this preliminary report are shown on the Site Plan, Figure 2.

Structural loads for the hotel building and retail pads were not available at the time of this preliminary report but are anticipated to be up to 300 kips and 50 kips, respectively. The grades at the site are currently being lowered or are planned to be lowered during the ongoing mining and exporting activities. Within an area covered by this preliminary investigation (between the northbound I-215 on-ramp and the new Warm Springs Parkway), the existing grades appear to be up to about 20 feet above the planned finished site grades. These cuts are planned to be performed prior to the completion of the project design. It is our understanding that select areas of the site have already been overexcavated to allow engineered fill to be placed to reach finished grade.

Based on the provided site plan, the proposed development will also likely include a storm water retention/infiltration system located along the southern and/or western property lines. Details of the infiltration system were not available at the time of this preliminary report but are anticipated to consist of near-surface infiltration via bio-swales or shallow retention basins.

Our preliminary recommendations are based on the above structural and grading information. We should be notified if the project plans change significantly from the above. GPI should review the project plans prior to finalizing the project design.

1.3 PURPOSE OF INVESTIGATION

The primary purpose of this investigation and report is to provide a preliminary evaluation of the existing geotechnical and geologic conditions at the site as they relate to the design and construction of the proposed development. More specifically, this investigation was aimed at providing preliminary geotechnical recommendations for earthwork, and design of foundations, floor slabs, retaining walls, infiltration systems, and pavements.

1.4 PRIOR SITE WORK

Several prior geotechnical investigations have been performed by GPI and others on portions of the subject site. The scope of work for the subject preliminary investigation included a review of these investigations.

GPI previously performed geotechnical investigations at the subject site for the new Warm Springs Parkway (to replace the vacated section of old Antelope Road) and a proposed commercial/retail development located to the east of the new road (GPI, 2009). Although not developed, the previously proposed project is similar to the type of development that is the subject of this report. The findings from our prior investigations were used in our current evaluation. The explorations performed for the prior investigations, as well as the lab testing on samples obtained from these explorations, have been incorporated into this report.

As part of our past work at the site, we were provided with prior investigations performed by others. These investigations included a preliminary geotechnical investigation for a proposed commercial development (EcoTech, 2004), a rock hardness/rippability study of the onsite materials to evaluate the site as a proposed borrow source (GeoSoils, 2005), and another preliminary geotechnical investigation for a proposed commercial/retail development and realignment of Antelope Road (T.H.E. Soils Co., 2008). The pertinent information within these reports was considered in preparing our preliminary report.

2.0 SCOPE OF WORK

Our scope of work for this investigation consisted of a review of existing data, field exploration, limited field infiltration testing, laboratory testing, engineering analysis, and the preparation of this report.

As part of a prior geotechnical investigation at the subject site, we performed 17 hollow-stem auger borings (B-1 to B-17) located along the new Warm Springs Parkway and within the portion of the site between the Warm Springs Parkway alignment and the existing residential developments to the east (GPI, 2009). These exploratory borings were performed to depths ranging from 11 to 26 feet below the site grades at the time of the investigation. Refusal in the dense, less weathered bedrock occurred in two of the borings prior to reaching their planned depths, likely due to the presence of cobbles and boulders.

The new fieldwork performed for this investigation included three hollow-stem auger borings (B-101 to B-103) performed to depths of 31 to 38 feet below existing grades before refusing in the dense, less weathered bedrock. A description of field procedures and logs of the current and prior explorations are presented in Appendix A. The locations of the subsurface explorations are shown on the Site Plan, Figure 2.

Laboratory tests were performed on selected representative samples as an aid in soil classification and to evaluate the engineering properties of the soils. The geotechnical laboratory testing program included determinations of moisture content and dry density, gradation, fines content, Atterberg Limits, direct shear, maximum dry density and optimum moisture content, R-value, and soil corrosivity.

R-value and soil corrosivity testing was performed by GeoLogic, Inc. and Schiff Associates (currently HDR), respectively, under subcontract to GPI. Laboratory testing procedures and results are summarized in Appendix B.

Engineering evaluations were performed to provide preliminary earthwork criteria, foundation and slab design parameters, preliminary pavement sections and assessments of seismic hazards. The results of our evaluations are presented in the remainder of the report.

3.0 SITE CONDITIONS

3.1 SITE HISTORY

Our understanding of the site history is based on a review of the prior investigations by GPI and others and a review of historical aerial photographs (Historic Aerials) dating back to 1938. Up to 1967, the site and surrounding area appears to be largely undeveloped except for a highway (known then as US 395) located west of the subject site area. In 1978, the highway (I-215) is shown being widened and the northbound on-ramp and Antelope Road appear to be under construction. The remaining majority of the site remains undeveloped. Between 1978 and 2002, the site appears to remain unchanged. In 2005, the residential developments to the east of the subject site are now in-place. Sometime between early 2007 and mid-2009, mining and exporting operations began on the northern half of the subject site and the portion of Antelope Road located along the west side of the subject site was closed. Since 2009, the site has remained relatively unchanged apart from the continued mining operations.

3.2 SURFACE CONDITIONS

The site is approximately 46 acres of vacant land and bounded by Clinton Keith Road to the south, the on-ramp to the northbound I-215 freeway to the west, vacant land followed by Cape Aire Way to the north, and a residential development to the east. Excluding the Costco Warehouse parcel, which is being evaluated by others, the portion of the site covered by our evaluation is approximately 28 acres in size.

Ground surface elevations across the site vary from about +1505 feet in the southeast corner to an approximate peak of +1610 feet in the northern middle portion of the site. Due to the ongoing mining and exporting activities, the grades are continuing to be lowered across a majority of the site. Existing slopes are highly variable, with localized areas exhibiting grades as steep as 2.5:1 (horizontal to vertical).

The existing alignment of Antelope Road, located in the western portion of the site, is currently abandoned. Ground surface elevations for Antelope Road vary from approximately +1546 in the north to +1526 in the south at the intersection with Clinton Keith Road. Pavement sections for the road were not determined.

3.3 SUBSURFACE SOILS

Our field investigations disclosed a subsurface profile consisting of topsoil and weathered organic bedrock over less weathered organic bedrock. It should be noted that these descriptions reflect the subsurface profiles at the location and time our explorations were performed. Borings B-1 through B-17 were performed in 2009 and were limited to the eastern half of the subject site. Borings B-101 through B-103 were performed as part of the current investigation and are located along the existing vacated portion of Antelope Road. Since 2009, the ongoing mining/exporting operations have resulted in significant cuts and the potential for significant fills throughout the site. Detailed descriptions of the conditions encountered are shown on the Logs of Borings in Appendix A.

The near-surface soil materials consisted primarily of weathered granitic bedrock (silty sands, sands, and sandy silts) with varying amounts of gravel. Drilling was performed with small diameter equipment, making it difficult to identify potential cobbles and boulders. However, based on our experience (cobbles and boulders were noted within the excavation being performed by others to the northwest of the site) and our observation of surficial conditions, localized boulders and cobbles should be anticipated. During our 2009 investigation, we observed exposed outcrops of boulders on the site that included material greater than 5 feet in diameter. However, the majority of the oversized material exposed in adjacent excavations at the time appeared to be between 2 and 3 feet in diameter. Based on information provided by the site developer, some onsite boulders are as large as 15 feet in diameter.

Based on blowcounts, the native soils generally range from very loose to very dense, with density increasing abruptly with depth and reduction in weathering of the granitic materials. The soils encountered within select 2009 explorations (Borings B-8, 12, 13, 15, 16, and 17) appeared to encounter the loose topsoil to deeper extents than other areas of the site. The moisture contents ranged from dry to moist, generally decreasing in content with depth.

As part of the ongoing mining activities at the site, some fill has been placed in select areas of the site for stockpiling purposes. Based on discussions with the site developer, decomposed granitic bedrock (planned for sale and export) has been placed in two separate stockpiles up to 10 feet in height. The complete extent of stockpile generation as a result of the mining activities is expected to vary with the export operations.

We did not note fill in our explorations performed as part of the current field investigation.

3.4 GROUNDWATER AND CAVING

Groundwater was not encountered in our borings to the maximum explored depth of 38 feet below existing ground surface. State historical records for groundwater were not available in the area of the subject site.

Caving was not noted within the relatively small-diameter hollow-stem auger borings. Localized caving may be encountered in the upper loose and dry sandy deposits; however, the general increase in density and cementation of the granular materials with depth make caving of the deeper materials unlikely if the excavation guidelines presented herein are followed.

4.0 CONCLUSIONS AND RECOMMENDATIONS

4.1 GENERAL

Based on the results of our investigation, it is our opinion that from a geotechnical viewpoint it is feasible to develop the site as proposed. The proposed structures can be supported on shallow foundations following remedial grading to mitigate the geotechnical constraints discussed below. The most significant geotechnical issues that will affect the design and construction of the proposed structures are as follows:

- The site contains topsoil/weathered bedrock over very dense granitic bedrock. The topsoil and upper portions weathered bedrock within the upper 2 to 7 feet below existing site grades is generally loose and not considered suitable for subsequent fill placement or uniform support of footings, slab-on-grade floors, and pavements. We recommend that the topsoil and low density weathered bedrock be removed prior to subsequent fill placement to design grades.

- To provide uniform support for the planned buildings in fill areas, the soils should be removed to a depth of at least 5 feet below the planned finished pad grade or 2 feet below the base of foundations, whichever is greater. Foundations for minor structures, such as site walls, may be supported in the undisturbed bedrock or be underlain by at least 2 feet of properly compacted fill. Deeper overexcavation in the area of deep cuts into the bedrock may be desirable in utility corridors to aid in excavating with conventional equipment.

- The undisturbed bedrock is suitable for direct support of building foundations but may be undesirable for future excavations of footings or utility trenches. To aid in excavation with conventional equipment, we recommend the removals for building pads established entirely in bedrock materials extend to a depth of at least 3 feet below the finished pad grade.

- Based on the variable depths to bedrock across the site, select building footprints may span bedrock and compacted fill. Such buildings will have an increased potential for differential settlement. For these transition pads, we recommend removal depths of at least 3 feet beneath the base of footings across the entire bedrock portion of the pad.

- The required grading will involve excavation into very dense granitic bedrock materials. Heavy ripping and relatively slow earthwork operations are anticipated in most of the deeper cuts. Some difficulty will be encountered in ripping the granitic materials and drilling and shooting or blasting may aid in grading production rates. Large floating boulders will be encountered during grading. Earthwork subcontractor should discuss the subsurface conditions with the site owner and personnel performing the recent mining operations to better understand the excavation issues anticipated.

- Because of the nature of the site bedrock and likely presence of boulders and cobbles, oversize material (greater than 12-inches in maximum dimension) should be anticipated to be generated from site cuts. Special handling and/or crushing of oversize material will be required in order to use the material as compacted fill. On-site placement of the boulders in compacted fills will depend on the final site grades.

- Bedding sand can be generated at the site for use in utility trenches and under slabs.

- Class II Aggregate Base, for use as backfill in onsite and offsite street work and other paved areas, may be generated from onsite crushed materials. Prior to the use of these materials, they should be properly graded and pass the necessary hardness tests in accordance with the Greenbook requirements.

Our recommendations related to the geotechnical aspects of the development of the site are presented in the subsequent sections of this report.

4.2 SEISMIC CONSIDERATIONS

4.2.1 General

The site is located in a seismically active area typical of Southern California and is likely to be subjected to strong ground shaking due to earthquakes on nearby faults.

We assume that seismic design of the proposed development will be in accordance with 2016 California Building Code (CBC) criteria. For the 2016 CBC, Site Class C may be used. The seismic code values can be obtained directly from the tables in the building code using the above value and appropriate United States Geological Survey web site (earthquake.usgs.gov). The Project Structural Engineer should determine the seismic design method.

4.2.2 Strong Ground Motion Potential

Based on published information (geohazards.usgs.gov), the most significant fault in the proximity of the site is the Elsinore Fault, which is located about 3.4 miles to the southwest.

During the life of the project, the site will likely be subject to strong ground motions due to earthquakes on nearby faults. Based on the USGS website (earthquake.usgs.gov), we computed that the site could be subjected to a peak ground acceleration (PGA_M) of 0.70g for a magnitude 7.0 earthquake. This acceleration has been computed using the mapped Maximum Considered Geometric Mean peak ground acceleration from ASCE 7-10 (ASCE, 2010) and a site coefficient (F_{PGA}) based on site class. The predominant earthquake magnitude was determined using a 2-percent probability of exceedance in a 50-year period, or an average return period of 2,475 years. The structural design will need to

incorporate measures to mitigate the effects of strong ground motion.

4.2.3 Potential for Ground Rupture

The site is not located within an Alquist-Priolo Special Studies Zone and there are no known faults crossing or projecting toward the site. Therefore, ground rupture due to faulting is considered unlikely at this site.

4.2.4 Liquefaction and Dynamic Settlement

Liquefaction is a phenomenon in which saturated cohesionless soils undergo a temporary loss of strength during severe ground shaking and acquire a degree of mobility sufficient to permit ground deformation. In extreme cases, the soil particles can become suspended in groundwater, resulting in the soil deposit becoming mobile and fluid-like. Liquefaction is generally considered to occur primarily in loose to medium dense deposits of saturated sandy soils. Thus, three conditions are required for liquefaction to occur: (1) a sandy soil of loose to medium density; (2) saturated conditions; and (3) rapid, large strain, cyclic loading, normally provided by earthquake motions.

The site is not located within an area mapped by the State of California as having a potential for soil liquefaction, in accordance with the Seismic Hazards Mapping Act as shown in the Murrieta Quadrangle (CGS, 2007). Groundwater was not encountered in our borings to a depth of 38 feet. Historical high groundwater data is not available in the vicinity of the site (CGS, 2007). Excluding the site from a potential liquefaction zone appears to have been based primarily on the depth to groundwater and the dense to very dense subsurface soils and the presence of weathered granitic bedrock.

Based on our findings, the potential for soil liquefaction to adversely affect the planned project is considered to be very low

4.2.5 Seismic Ground Subsidence

Seismic ground subsidence (not related to liquefaction induced settlements), occurs when loose, granular (sandy) soils above the groundwater are densified during strong earthquake shaking. Earthquake-induced seismic subsidence during a strong earthquake is not anticipated to adversely affect the planned project because of the dense to very dense nature of the near surface sandy soils and the presence of bedrock materials underlying those soils. Based on our analysis, potential earthquake-induced seismic subsidence during a strong earthquake is estimated to be less than ¼-inch.

4.3 EARTHWORK

The earthwork at the subject site is anticipated to consist of clearing and grubbing, significant cuts (up to 20 feet) to finished grade, overexcavation of disturbed soils under buildings, in utility corridors, and under settlement sensitive hardscape, subgrade preparation, and the placement and compaction of fills.

Significant ripping, oversized materials, and slow earthwork operations should be anticipated. Based on our explorations and observations of grading operations at nearby project sites, the upper weathered granite will break down under the ripping and compaction equipment to the consistency of a granular soil with some cemented larger particles. Localized clusters of less weathered rock are exposed at the ground surface, were encountered at depth in our explorations, and have been encountered in the adjacent on-going excavations. Some large boulders encountered on-site may be used in landscaping. The remaining oversized materials can be placed on-site in the compacted fill as recommended in a following section, if access is available.

4.3.1 Clearing and Grubbing

Prior to grading, the areas to be developed should be stripped of vegetation and cleared of debris. Buried obstructions, such as footings, utilities and tree roots, should be removed. Deleterious material generated during the clearing operation should be removed from the site. Although not anticipated in great extent because the site is undeveloped, and if acceptable to the regulatory agencies, on-site inert demolition debris, such as concrete and asphalt, may be crushed for re-use in engineered fills in accordance with criteria presented in the "Material for Fill" section of this report.

Although not encountered during our investigations, cesspools or septic systems encountered within building areas during grading should be removed in their entirety. The resulting excavation should be backfilled as recommended in the "Subgrade Preparation" and "Placement and Compaction of Fill" sections of this report. As an alternative, cesspools can be backfilled with lean sand-cement slurry. At the conclusion of the clearing operations, a representative of the personnel from GPI should observe and accept the site prior to further grading.

Two wells were observed on-site during our 2009 investigation. Details regarding the wells in regards to their current status and/or operation were not available. If the wells are still in place and are not planned to be used for production, they should be properly abandoned in accordance with City and County guidelines.

4.3.2 Excavations

Excavations at this site will include cut of existing materials to design grades, removals of loose topsoil and portions of the weathered bedrock, footing excavations, and trenching for proposed utility lines.

Prior to placing fills or the construction of the proposed buildings or other foundation supported improvements, the loose or disturbed upper soils within the proposed building

areas should be removed and replaced as properly compacted fill. Although not encountered in our explorations, existing undocumented fills should also be removed below building pads or foundation supported improvements.

Based on our explorations, the depth of topsoil and low density highly weathered bedrock ranges from about 2 to 7 feet below existing site grades, with an average depth of about 4 feet below existing site grades. Where not removed by planned cuts, these materials should be removed and replaced with properly compacted fill.

The recommended earthwork will depend on the area of the site (bedrock or topsoil) as well as the planned improvement and cut/fill conditions. The actual depths of removal should be determined in the field during grading by a representative of GPI. For planning purposes, we recommend the following overexcavation depths:

- At least 2 feet below the existing ground surface in areas to receive fill to remove and recompact the near-surface disturbed natural soils.

- At least 5 feet below the planned finish pad grade or 2 feet below the base of foundations, whichever is greater, for buildings and other major foundation supported improvements in fill areas.

- At least 3 feet beneath the base of footings for buildings spanning across bedrock and compacted fill (transition pad).

- At least 2 feet below the base of foundations for minor foundation supported improvements such as short retaining walls or screen walls, unless the foundations will be established in the undisturbed bedrock.

- At least 2 feet below the existing grade within planned drives and parking areas (may be replaced with scarification, moisture-conditioning, and compaction in areas of cut greater than 2 feet).

The undisturbed bedrock is suitable for direct support of building foundations. Conventional excavating equipment (e.g. backhoe) may have difficulty excavating footings or pad utility trenches in the undisturbed bedrock. As such, we recommend the removals for building pads established entirely in bedrock materials extend to a depth of at least 3 feet below the finished pad grade. Deeper removals may be beneficial if deep footings or pad utilities are planned. Also, overexcavation and recompaction for site utility corridors may be beneficial in areas of deep cut where less weathered bedrock is anticipated so that conventional installation of utilities is possible.

The Project Surveyor should accurately stake the corners of the areas to be overexcavated in the field. The base of the excavations should extend laterally at least 10 feet beyond the outside edge of the foundations or a minimum distance equal to the depth of overexcavation/compaction below finish grade (i.e., a 1:1 projection below the top edge of footings), whichever is greater. This includes the footprint of the building, hardscape along the building, and other foundation supported improvements, such as site walls, canopies,

equipment pads, and enclosures.

Where not removed by the aforementioned excavations, existing utility trench backfill within building areas should be removed and replaced as properly compacted fill. This is especially important for deeper fills such as existing sewers and storm drains. For planning purposes, removals over the utilities should extend to within 1-foot of the top of the pipe. For utilities that are 3 feet or shallower, the removal should extend laterally 1-foot beyond both sides of the pipe. For deeper utilities, the removals should include a zone defined by a 1:1 projection upward (and away from the pipe) from each side of the pipe. The actual limits of removal will be confirmed in the field. We recommend that known utilities be shown on the grading plan. It is our understanding that existing utilities under the vacated portion of Antelope Road will be left-in-place and should not be disturbed.

Temporary construction excavations may be made vertically without shoring to a depth of 5 feet below adjacent grade. For deeper cuts up to 20 feet, the slopes should be properly shored or sloped back at least 1:1 or flatter in the moderately to highly weathered bedrock and ¾:1 (horizontal:vertical) in the less weathered granitic bedrock. The allowable temporary slope inclination is measured from the toe to top of slope. As such, if a vertical cut is incorporated into the slope, the remaining portion must be flattened to achieve the recommended inclination. Some raveling should be anticipated at the slope inclinations recommended if sandy deposits are exposed. If raveling cannot be tolerated, flatter slope inclinations should be considered. The exposed slope face should be kept moist (but not saturated) during construction to reduce local sloughing.

In areas where removals are performed adjacent to property lines, existing streets, or other improvements where temporary slopes are not feasible, temporary shoring or “ABC” slot cuts should be utilized. The slots should be no wider than 8 feet and no deeper than 8 feet, and should be backfilled immediately to finish grade prior to excavation of the adjacent two slots. If localized dry, clean sand deposits are encountered, narrower slots may be required. We should review the plans for excavation adjacent to property lines and existing improvements when they are developed.

Surcharge loads should not be permitted within a horizontal distance equal to the height of cut from the top of the excavation or 5 feet from the top of the slopes, whichever is greater, unless the cut is properly shored. Excavations that extend below an imaginary plane inclined at 45 degrees below the edge of any adjacent existing site facilities should be properly shored to maintain support of adjacent elements. Excavations and shoring systems should meet the minimum requirements given in the most current State of California Occupational Safety and Health Standards. If cuts greater than 20 feet are required, we should be contacted to provide an allowable slope inclination.

In general, the excavations will extend into both loose topsoil/weathered bedrock and very dense bedrock material. Conventional soil excavation equipment such as backhoes, loaders, scrapers, or dozers is being used for the on-going excavations on the adjacent site, but may have difficulty excavating into the dense bedrock. Relatively slow earthwork operations should be anticipated in most of the deeper cuts. Some difficulty will be encountered in ripping the dense granitic materials and drilling and shooting or blasting may aid in increasing earthwork production in deep cut areas.

4.3.3 Subgrade Preparation

Prior to placing fills or construction of the proposed structures, the subgrade soils should be scarified to a depth of 8 inches, moisture-conditioned, and compacted to at least 90 percent of the maximum dry density in accordance with ASTM D 1557. Subgrade processing should be omitted where the exposed soils are well over the optimum moisture content or if moist, undisturbed bedrock is exposed.

4.3.4 Material for Fill

The on-site soils are, in general, suitable for use as compacted fill within the building pad and pavement areas. Particles larger than 12 inches in diameter should be placed at least 2 feet below the finished subgrade in parking and landscape area fills. The location selected for the rock placement should avoid future underground work, such as utility installation. The larger rock should be placed to avoid “nesting.” Cobbles less than 12 inches in diameter may be placed in building pad fills, with the exception of the upper 3 to 4 feet (at least 1-foot below the planned footing depths), which should consist of cleaner sandy soils (particles sizes of less than 3-inch in diameter and not more than 25 percent of the material larger than 1-inch in diameter) to facilitate footing excavations.

Although not encountered in our explorations, clayey soils should not be placed within 2 feet of the building pads or within retaining wall backfill. Soils used as retaining wall backfill should be predominately granular (contain no more than 40 percent fines - portion passing No. 200 sieve) and non-expansive (E.I. less than 20). Such materials are anticipated to be available on-site.

If required, imported fill material should be predominately granular (contain no more than 40 percent fines - portion passing No. 200 sieve) and non-expansive (E.I. less than 20). The import should also exhibit an R-value of at least 50 if used in proposed paved areas. GPI should be provided with a sample (at least 50 pounds) and notified of the location of soils proposed for import at least 72 hours in prior to importing. Each proposed import source should be sampled, tested and accepted for use prior to delivery of the soils to the site. Soils imported prior to acceptance by GPI may be rejected if not suitable. Imported materials larger than 6 inches in diameter should not be used in the compacted fills.

Although not anticipated in significant quantities and if acceptable to the City and the owner, the on-site inert debris, such as concrete, asphalt, or brick, can be used in planned fills if it is adequately crushed and mixed with the on-site soils. For general fills, the material should be crushed to the consistency of aggregate base (3-inch minus) and mixed with at least three parts soil. Such material should not be placed in proposed landscape areas or beneath planned buildings.

4.3.5 Placement and Compaction of Fills

Fill soils should be placed in horizontal lifts, moisture-conditioned, and mechanically compacted to at least 90 percent of the maximum dry density in accordance with ASTM D 1557. Fill soils placed within 12 inches of the finished pavement subgrade or deeper than 5 feet below finished grade should be compacted to at least 95 percent. The optimum lift thickness will depend on the compaction equipment used and can best be determined in the field. The following uncompacted lift thickness can be used as preliminary guidelines.

Plate compactors	4-6 inches
Small vibratory or static rollers (5-ton)	6-8 inches
Scrapers, heavy loaders, and large vibratory rollers	8-12 inches

The maximum lift thickness should not be greater than 12 inches and each lift should be thoroughly compacted and accepted prior to subsequent lifts. Earthwork contractors should consider additional equipment utilizing a sheepsfoot compactor to readily breakdown oversized bedrock material from the cut during compactions.

The moisture contents of the on-site soils are widely variable (dry to moist), such that mixing and moisture conditioning during grading will be required. The earthwork contractors should allow for the variable conditions in their bids. The moisture content of the on-site materials should be between 1 to 3 percent over the optimum moisture conditions at the time of compaction. Care should be taken by the Contractor to maintain the moisture content of the soils exposed at finished grade in slab, hardscape, and pavement areas until the soils are covered. If the soils are allowed to dry out, additional processing will be required.

During backfill of excavations, the fill should be properly benched into the construction slopes as it is placed in lifts.

If the boulders encountered in the on-site cuts are to be placed in the parking lot or landscape area fills, the materials should be disposed of in windrows or pits to reduce the potential for voids. Boulders up to 36 inches in diameter should be disposed of in windrows. The windrows should be constructed in a trench condition (engineered fill brought up at a higher elevation on both sides) to allow for the voids between the boulders to be filled with sands and flooded or jetted. The particles should be placed far enough apart to prevent nesting and to permit placement and flooding/jetting of sand around each particle to avoid permanent voids. The sands used for the jetting should consist of the on-site sands or imported materials with no more than 35 percent by weight retained on the No. 200 sieve and no particles larger than 1-inch in diameter. Upon jetting, the windrows can be covered with one lift of soil before mechanically compacting with a vibratory compactor (minimum 40,000 pounds dynamic force) or large static compaction equipment (Caterpillar 824 or equivalent). A horizontal spacing of at least 20 feet should be provided between windrows. Vertically, the bottom of a new windrow should be spaced at least 5 feet from the top of the old windrow and should be offset such that the windrows are not constructed directly over the underlying windrow. The windrows should be constructed parallel with any existing permanent fill slopes and should be maintained at a horizontal distance of at least 15 feet from the face of slopes.

Boulders larger than 36 inches in diameter should be broken to achieve smaller sizes (less than 36 inches). A less desirable but acceptable alternative would be to dispose of larger boulders in pits. The pits should be constructed similarly to the windrows discussed above but only one boulder should be placed in each pit. The pit should be backfilled with sand to a distance of 36 inches from the base of the pit and flooded or jetted. Above 36 inches, the backfill should be mechanically compacted in lifts.

The locations of the windrows or pits should be coordinated by the contractor to avoid conflicts with other planned improvements, such as utilities or parking lot light standards. Alternative methods for disposal of oversized materials proposed by the contractor can be evaluated.

4.3.6 Shrinkage and Subsidence

Shrinkage is the loss of soil volume caused by compaction of fills to a higher density than before grading. Subsidence is the settlement of in-place subgrade soils caused by loads generated by large earthmoving equipment. For earthwork volume estimating purposes, an average shrinkage value of 5 to 10 percent for the surficial soils (generally in the upper 2 to 5 feet) and a bulking value of 0 to 5 percent in the deeper materials (cut) may be assumed. A subsidence of 0.1 feet may be assumed for the surficial natural soils in planned pavement areas where the surficial soils will be scarified and compacted in place. These values are estimates only and exclude losses due to removal of vegetation or debris. Actual shrinkage and subsidence will depend on the types of earthmoving equipment used and should be determined during grading.

4.3.7 Trench/Wall Backfill

Utility trench and wall backfill consisting of the on-site material or imported sand should be mechanically compacted in lifts. Soils placed as retaining wall backfill should be granular and relatively non-expansive, as previously defined. Lift thickness should not exceed those values given in the "Placement and Compaction of Fills" section of this report. Moisture conditioning of the on-site soils will be required prior to re-use as backfill. Jetting or flooding of backfill materials should not be permitted with the exception of disposing oversized materials. A representative of GPI should observe and test trench and wall backfills as they are placed.

In backfill areas where mechanical compaction of soil backfill is impractical due to space constraints, sand-cement slurry may be substituted for compacted backfill. The slurry should contain 1½ sacks of cement per cubic yard and have a maximum slump of 5 inches. When set, such a mix typically has the consistency of compacted soil.

4.3.8 Observation and Testing

A representative of GPI should observe excavations, subgrade preparation, and fill placement activities. Sufficient in-place field density tests should be performed during fill placement and in-place compaction to evaluate the overall compaction of the soils. Soils

that do not meet minimum compaction requirements should be reworked and retested prior to placement of additional fill.

4.4 FOUNDATIONS

4.4.1 General

The proposed structures may be supported on conventional isolated and/or continuous shallow footings, provided the subsurface soils are prepared in accordance with the recommendations given in this report. Footings should be supported on properly compacted fill.

The onsite sandy soils will dry out relatively quickly if left exposed. Immediately prior to placing reinforcing steel and concrete, we recommend the base of the footings be wetted and surficially compacted using a hand compactor.

4.4.2 Allowable Bearing Pressures

Based on the shear strength and elastic settlement characteristics of the recompacted on-site soils, a static allowable bearing pressure of 4,000 pounds per square foot (psf) may be used for both continuous footings and isolated column footings. These bearing pressures are for dead-plus-live-loads, and may be increased one-third for short-term, transient, wind and seismic loading. The actual bearing pressure used may be less than the value presented above and can be based on economics and structural loads to determine the minimum width for footings as discussed below. The maximum edge pressures induced by eccentric loading or overturning moments should not be allowed to exceed these recommended values.

4.4.3 Minimum Footing Width and Embedment

The following minimum footing widths and embedments are recommended for the corresponding allowable bearing pressure.

STATIC BEARING PRESSURE (psf)	MINIMUM FOOTING WIDTH (inches)	MINIMUM FOOTING* EMBEDMENT (inches)
4,000	48	24
3,000	24	24
2,500	18	24
2,000	18	18

* Refers to minimum depth below lowest adjacent grade.

A minimum footing width of 18 inches should be used even if the actual bearing pressure is less than 2,000 psf.

4.4.4 Estimated Settlements

Maximum total static settlement of the more heavily loaded column footings (assumed to 300 kips) is expected to be less than 1-inch. Maximum total static settlement of the moderately loaded column footings (assumed to be 50 to 100 kips) is expected to be less than ½-inch. Maximum differential settlements between similarly loaded adjacent footings are expected to be less than ½-inch and ¼-inch for heavily loaded and moderately loaded column footings, respectively.

The above estimates are based on the assumption that the recommended earthwork will be performed and the footings will be sized in accordance with our recommendations.

4.4.5 Lateral Load Resistance

Soil resistance to lateral loads will be provided by a combination of frictional resistance between the bottom of footings and underlying soils and by passive soil pressures acting against the embedded sides of the footings. For frictional resistance, a coefficient of friction of 0.35 may be used for design. In addition, an allowable lateral bearing pressure equal to an equivalent fluid weighing of 300 pounds per cubic foot, may be used, provided the footings are poured tight against compacted fill soils. These values may be used in combination without reduction.

4.4.6 Foundation Concrete

Laboratory testing by Schiff and Associates (currently HDR, Appendix B) indicates a soluble sulfate content of 8 mg/kg (less than 0.01 percent by weight). For the 2016 CBC, Foundation concrete should conform to the requirements outlined in ACI 318, Section 4.3, for negligible levels of soluble sulfate exposure from the on-site soil.

4.4.7 Foundation Observation

Prior to placement of concrete and steel, a representative of GPI should observe and approve foundation excavation.

4.4.8 Light Standard Bases

The design of light standard bases is generally governed by lateral force considerations. For design by the simplified pole formula presented in Section 1807A.3.2.1 of the 2016 California Building Code, a unit passive resistance of 300 pounds per square foot per foot (to a maximum of 3,000 pounds per square foot) may be used for the piles with level ground in lieu of the presumptive lateral bearing values presented in Table 1806A.2. As stated in the code, a passive resistance of 600 pounds per square foot per foot (to a maximum of 6,000 pounds per square foot) may be used for isolated piles as determined by the Project Structural Engineer. This value incorporates the allowable increase stated in Section 1806A.3.4 of the code for single poles that can tolerate ½-inch of deflection under short-term loads.

A pile designed for adequate embedment to resist the anticipated lateral loads should have adequate axial capacity to support the anticipated vertical loads. The net allowable vertical compressive capacity can be conservatively calculated based on a unit side friction of 500 pounds per square foot, neglecting any end bearing contribution. We recommend that the upper 1-foot of the subgrade soils be ignored in determining the required depth of embedment to allow for future surface disturbance adjacent to the pile.

4.5 BUILDING FLOOR SLABS

Slab-on-grade floors should be supported on granular (sandy), non-expansive, compacted soils as discussed in the “Material for Fill” section. The on-site sands and silty sands encountered are anticipated to be suitable for direct support of the slabs.

A vapor/moisture retarder should be placed under slabs that are to be covered with moisture-sensitive floor coverings (parquet, vinyl, tile, etc.). Polyolefin in 15-mil thickness should be covered by a layer of clean sand (less than 5 percent by weight passing the No. 200 sieve) having a minimum thickness of 2 inches. Based on our explorations and laboratory testing, the soils at the site are not suitable for this purpose. The function of the sand layer is to protect the vapor retarder during construction and to aid in the uniform curing of the concrete. This layer should be nominally compacted using light equipment. The sand placed over the vapor retarder should only be slightly moist. If the sand gets wet (for example because of rainfall or excessive moistening) it must be allowed to dry prior to placing concrete. Care should be taken to avoid infiltration of water into the sand layer after placement of the concrete slab, such as at slab cut-outs and other exposures. Placement of the sand over the retarder is a construction related issue. If the Contractor desires to omit the sand layer and takes the necessary steps to protect the vapor retarder and properly cure the concrete slab (prevent curling), we take no exception.

It should be noted that the material used as a vapor retarder is only one of several factors affecting the prevention of moisture accumulation under floor coverings. Other factors include maintaining a low water-cement ratio for the concrete used for the floor slab, effective sealing of joints and edges (particularly at pipe penetrations) as well as excess moisture in the concrete. The manufacturer of the floor coverings should be consulted for establishing acceptable criteria for the condition of the floor surface prior to placing moisture-sensitive floor coverings.

For the elastic design of slabs supporting sustained concentrated loads, a modulus of subgrade reaction (k) of 200 pounds per cubic inch (pounds per square inch per inch of deflection) may be used. This value is for a 1-foot by 1-foot square loaded area and should be adjusted by the structural designer for the area of the proposed building slab using appropriate elastic theory.

For lateral resistance design, a coefficient of friction value of 0.35 between aggregate base or select fill and concrete may be used. For a slab on a visqueen moisture barrier, a coefficient of 0.1 should be used.

4.6 LATERAL EARTH PRESSURES

Based on information available to us at the time this report was prepared, no major retaining walls are planned for the project. The following recommendations are provided for walls less than 8 feet high at the project site. We recommend that retaining walls be backfilled with on-site or imported non-expansive granular soils.

Active earth pressures can be used for designing walls that can yield at least ½-inch laterally in 10 feet of wall height under the imposed loads. For level backfill comprised of on-site or imported granular soils (non-expansive with no more than 40 percent passing No. 200 sieve), the magnitude of active pressures are equivalent to the pressures imposed by a fluid weighing 35 pounds per cubic foot (pcf). This pressure may also be used for the design of temporary excavation support.

At-rest pressures should be used for restrained walls that remain rigid enough to be essentially non-yielding. At-rest pressures imposed by a fluid weighing 52 pounds per cubic foot should be used for drained granular backfill.

Walls subject to surcharge loads should be designed for an additional uniform lateral pressure equal to one-third and one-half the anticipated surcharge pressure for unrestrained and restrained walls, respectively.

The wall backfill should be well-drained to relieve possible hydrostatic pressure or designed to withstand these pressures. A drain consisting of perforated pipe and gravel wrapped in filter fabric should be used. One cubic foot of rock should be used for each lineal foot of pipe. The fabric (non-woven filter fabric, Mirafi 140N or equivalent) should be lapped at the top. We prefer pipe and gravel drains to weep holes to avoid potential for constant flow of surface water in front of the wall.

The Structural Engineer should specify the use of select, granular wall backfill on the plans. Wall footings should be designed as discussed in the "Foundations" section.

4.7 CORROSIVITY

Based on results of laboratory testing (Appendix B), the on-site soils are moderately corrosive to ferrous metals. GPI does not practice corrosion engineering. Should the use of buried pipe be proposed, a corrosion engineer such as HDR should be contacted to provide recommendations to protect these elements from corrosion.

4.8 DRAINAGE

Positive surface gradients should be provided adjacent to structures so as to direct surface water run-off and roof drainage away from foundations and slabs toward suitable discharge facilities. The introduction of water into uncompacted natural soils can result in subsidence due to densification of the collapsible soils. Long-term ponding of surface water should not be allowed on pavements or adjacent to buildings. We recommend that landscape planters be avoided immediately adjacent to the building. If planters are required, they should be provided with surface drains and planted with drought tolerant plants to reduce the

potential for the infiltration of surface water beneath the building foundations and floor slabs.

4.9 EXTERIOR CONCRETE AND MASONRY FLATWORK

Exterior concrete and masonry flatwork should be supported on granular, non-expansive (EI not greater than 20) compacted fill. Prior to placement of concrete, the subgrade should be prepared as recommended in "Subgrade Preparation" section. It should be noted that the sidewalk in front of the buildings should be considered as part of the building pad for earthwork purposes.

4.10 PAVED AREAS

R-value test results indicate that the subgrade soils have an R-value of 63. Preliminary pavement design has been based on an R-value of 50. The California Division of Highways Design Method was used for design of the recommended preliminary asphalt concrete pavement sections. These recommendations are based on the assumption that the pavement subgrades will consist of existing near surface soils. Final pavement design should be based on R-value testing performed near the conclusion of rough grading. The following pavement sections are recommended for planning purposes only.

PAVEMENT SECTIONS

PAVEMENT AREA	TRAFFIC INDEX	SECTION THICKNESS (inches)	
		ASPHALT/PORTLAND CONCRETE	AGGREGATE BASE COURSE
Asphalt Concrete			
Automobile Parking	4.0	3.0	4.0
Automobile Drives	5.0	3.0	5.0
Truck/Bus Drives	6.0	3.5	5.0
Portland Cement Concrete			
Automobile Parking	4.0	6.0	4.0
Automobile Drives	5.0	6.0	4.0
Truck/Bus Drives	6.0	6.5	4.0

The pavement subgrade underlying the aggregate base should be properly prepared and compacted in accordance with the recommendations outlined under "Subgrade Preparation" or “Placement and Compaction of Fills”.

The pavement base course should be compacted to at least 95 percent of maximum density (ASTM D 1557). Aggregate base should conform to the requirements of Section 26 of the California Department of Transportation Standard Specifications for Class II aggregate base (three-quarter inch maximum) or Section 200-2 of the Standard Specifications for Public Works Construction (Green Book) for untreated base materials (except processed miscellaneous base).

The concrete used for paving should have a modulus of rupture of at least 550 psi (equivalent to an approximate compressive strength of 3,700 psi at the time the pavement is subjected to traffic). The upper 12 inches of the subgrade soils should be compacted to at least 95 percent of the maximum dry density (ASTM D 1557).

The above recommendations are based on the assumption that the base course and compacted subgrade will be properly drained. The design of paved areas should incorporate measures to prevent moisture build-up within the base course, which can otherwise lead to premature pavement failure. For example, curbing adjacent to landscaped areas should be deep enough to act as a barrier to infiltration of irrigation water into the adjacent base course.

4.11 SLOPES

New slopes or modifications to existing slopes up to 15 feet in height may be constructed at inclinations of 2:1 (horizontal:vertical) or flatter. For higher slopes, GPI should be provided with the details to evaluate the recommended inclination.

Achieving good compaction at the face of the slope is important in reducing the potential for erosion. Modifications to the existing slopes should be overbuilt by at least 3 feet during rough grading and trimmed back to a hard and unyielding surface. The fill should be properly benched into the existing slopes as it is placed in lifts. Slope rolling to achieve a finished compacted surface should not be used if surficial erosion is not tolerable.

Slopes should be seeded or planted as soon as possible to reduce the erosion potential. Other protective measures, such as installing drains and grading the top of the slope to drain should be performed. We recommend that the condition of the existing slopes on-site be periodically reviewed to confirm that the erosion protection measures are in good repair.

Setbacks of structures from the top and toe of the existing and planned slopes should be maintained in accordance with the County of Riverside standards.

4.12 SUBSURFACE INFILTRATION

To provide a preliminary evaluation of the infiltration characteristics for a proposed stormwater bio-infiltration system, we performed two near-surface field infiltration tests. Details of the infiltration system have not been established, but based on the request of the Project Team, we have performed infiltration tests along Clinton Keith Road at the existing alignment of Antelope Road and along Antelope Road between our borings B-101 and B-102. Both tests were performed at approximate depths of 1-foot below the current ground surface. The tests were performed in general accordance with the County of Riverside methods (County of Riverside, 2011).

The tests were performed in shallow borings drilled with an 8-inch hollow stem auger. The test wells were filled with approximately 1-foot of water at the initiation of the test. During the initial soak, the wells exhibited two consecutive measurements of greater than 6 inches of water surface drop in less than 25 minutes, meeting the criteria for Sandy Soils as detailed in the County guidelines. As such, we performed the subsequent infiltration tests over 10-minute intervals. The tests were repeated until 8 readings were obtained. The pre-adjusted infiltration rate was calculated as the depth of water drained over the associated

time interval.

Once the pre-adjusted infiltration rate was determined, we corrected the results using the Porchet Method as outlined by the County. We determined the following stabilized and corrected rates:

- P-101 – 2.2 inches per hour
- P-102 – 2.1 inches per hour

Significantly lower infiltration rates, approaching zero, are anticipated in the less weathered bedrock materials. Additional testing should be performed when finished grades are established. Additional factors of safety in computing the design infiltration rate of the proposed infiltration BMP should be determined by the project Civil Engineer. The results of the infiltration tests are presented in Table 1, Borehole Infiltration Test Results.

It should be noted that the volume of water applied during our test was relatively low compared to the planned system. Due to the dense nature of the near surface and subsurface soils and the presence of shallow weathered bedrock, infiltration of large volumes of water into the near surface soils may result in limited percolation rates and the potential for long-term mounding or perched conditions. The Civil Engineer should evaluate the feasibility of subsurface infiltration using the rates provided.

The testing was performed with clean, clear water, and the results do not include effects of sediments, fines, dissolved solids, or other debris, as these will significantly reduce the percolation rates of the subsurface soils. The infiltration system should include processes to clean the inflow of sediments or other deleterious materials to reduce the potential for clogging and reduced infiltration rates.

4.13 GEOTECHNICAL OBSERVATION AND TESTING

We recommend that a representative of GPI observe earthwork during construction to confirm that the recommendations provided in our report are applicable during construction. The earthwork activities include grading, compaction of fills, subgrade preparation, backfill of utility trenches and retaining walls, pavement construction and foundation excavations. If conditions are different than expected, we should be afforded the opportunity to provide an alternative recommendation based on the actual conditions encountered.

5.0 LIMITATIONS

The report, exploration logs, and other materials resulting from GPI's efforts were prepared exclusively for use by CK 17 LP, Felicita Inc., and their consultants in designing the proposed development. If relying on this report, those entities besides CK 17 LP are bound by the terms and conditions in our contract with CK 17 LP (a copy can be provided upon request). The report is not intended to be suitable for reuse on extensions or modifications of the project or for use on any project other than the currently proposed development, as it may not contain sufficient or appropriate information for such uses. If this report or portions of this report are provided to contractors or included in specifications, it should be understood that they are provided for information only. This report cannot be utilized by another entity without the express written permission of GPI. This report is an instrument of our services and remains the property of GPI.

Soil deposits may vary in type, strength, and many other important properties between points of exploration due to non-uniformity of the geologic formations or to man-made cut and fill operations. While we cannot evaluate the consistency of the properties of materials in areas not explored, the conclusions drawn in this report are based on the assumption that the data obtained in the field and laboratory are reasonably representative of field conditions and are conducive to interpolation and extrapolation.

Furthermore, our recommendations were developed with the assumption that a proper level of field observation and construction review will be provided during grading, excavation, and foundation construction by GPI. If field conditions during construction appear to be different than is indicated in this report, we should be notified immediately so that we may assess the impact of such conditions on our recommendations. If construction phase services are performed by others they must accept full responsibility (as Project Geotechnical Engineer) for the geotechnical aspects of the project, including this report.

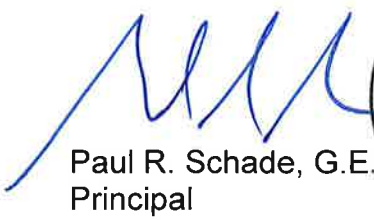
Our investigation and evaluations were performed using generally accepted engineering approaches and principles available at this time and the degree of care and skill ordinarily exercised under similar circumstances by reputable Geotechnical Engineers practicing in this area. No other representation, either expressed or implied, is included or intended in our report.

Respectfully submitted,
Geotechnical Professionals Inc.



Dylan J. Boyle, P.E.
Project Engineer





Paul R. Schade, G.E.
Principal



DJB/PRS:sph

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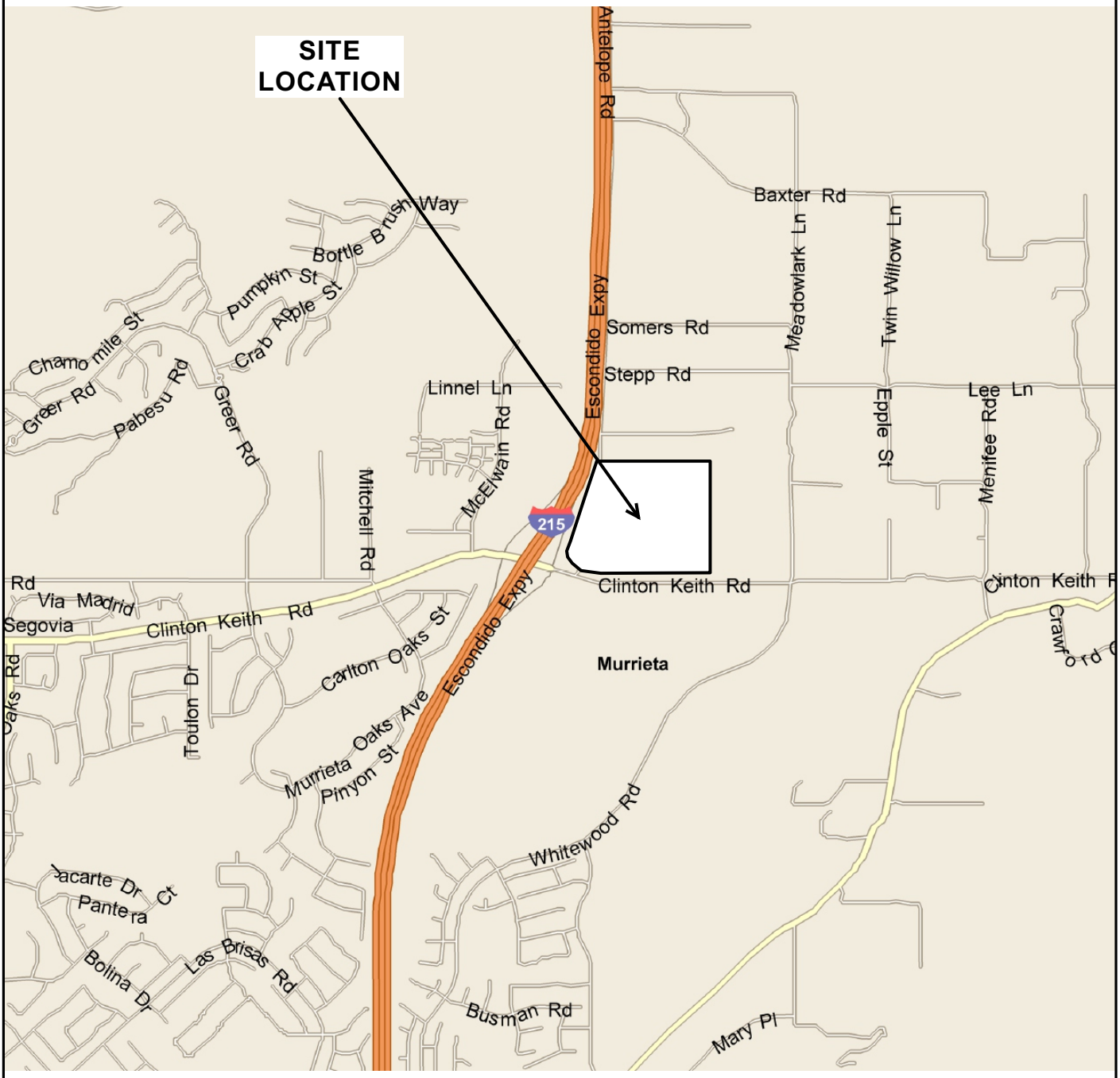
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BASE MAP REPRODUCED FROM MICROSOFT STREETS AND TRIPS © 2008

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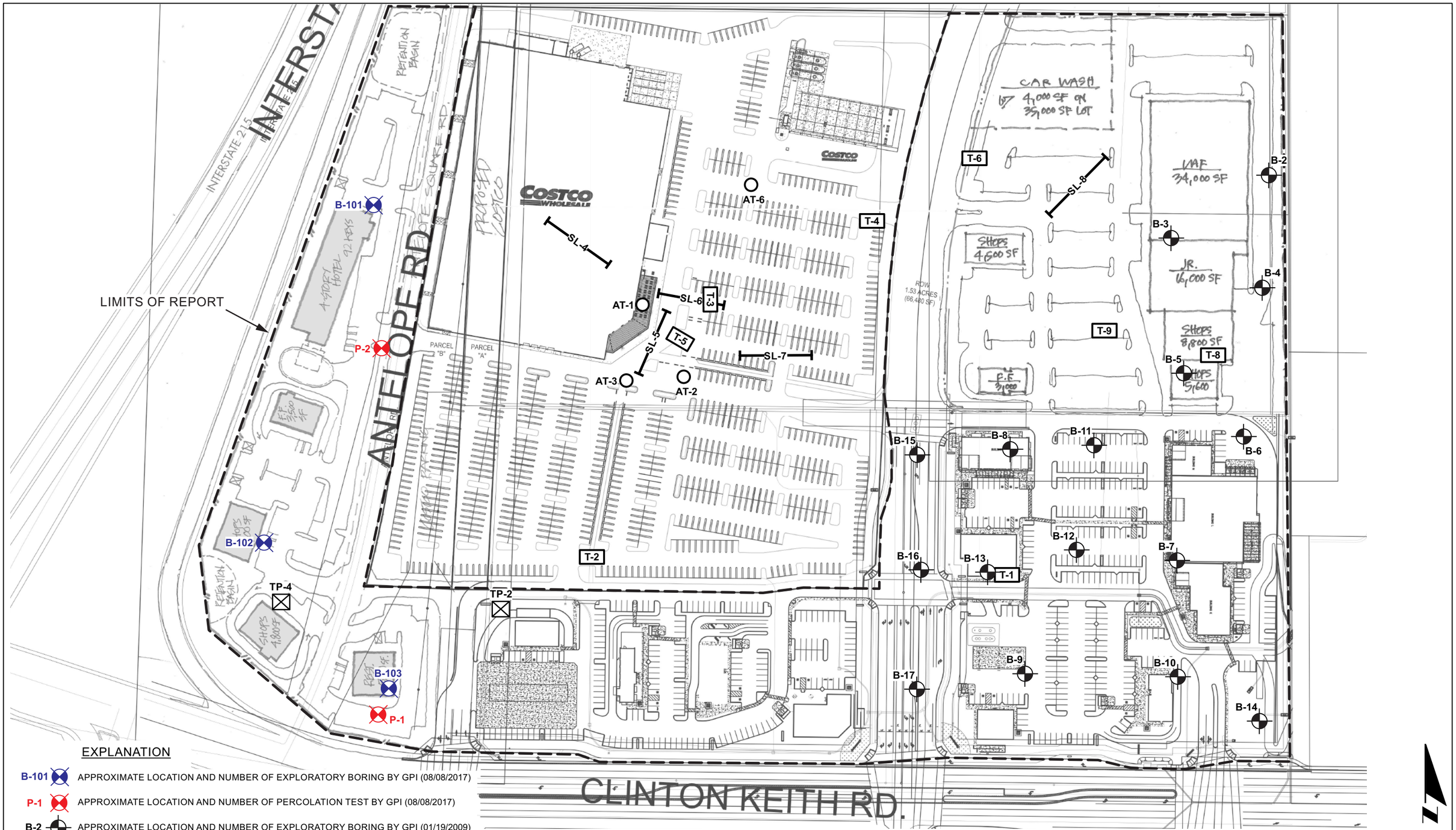
VINEYARD / VAL VISTA CENTER

GPI PROJECT NO.: 2833.I

SCALE: 1" = 2000'

SITE LOCATION MAP

FIGURE 1



EXPLANATION

- B-101 — APPROXIMATE LOCATION AND NUMBER OF EXPLORATORY BORING BY GPI (08/08/2017)
- P-1 — APPROXIMATE LOCATION AND NUMBER OF PERCOLATION TEST BY GPI (08/08/2017)
- B-2 — APPROXIMATE LOCATION AND NUMBER OF EXPLORATORY BORING BY GPI (01/19/2009)
- AT-3 — APPROXIMATE LOCATION AND NUMBER OF AIR TRACK BORINGS BY GEOTEK (2004)
- T-1 — APPROXIMATE LOCATION AND NUMBER OF EXPLORATORY TRENCHES BY THE SOILS CO. (3/15/2007)
- TP-4 — APPROXIMATE LOCATION AND NUMBER OF TEST PIT BY ECOTECH (7/26/2004)
- SL-5 — APPROXIMATE LOCATION AND NUMBER OF SEISMIC LINES BY GEOSOILS, INC (10/3/05)

0 150 300 FEET

BASE PLAN REPRODUCED FROM CONCEPTUAL PLAN PROVIDED BY CK-17, LP: (UNDATED)

GPI GEOTECHNICAL PROFESSIONALS, INC.

VINEYARD / VAL VISTA CENTER

GPI PROPOSAL NO.: 2833.I | SCALE: 1" = 150'

SITE PLAN

FIGURE 2

TABLE 1

BOREHOLE INFILTRATION TEST RESULTS (corrected with Porchet Method)

Riverside County Method-TGD, 2011

Project No. 2833.I Project Name: Vineyard CK17 Date: 8/18/2017

Test Date 8/8/2017 NOTE: Slowest rate from percolation testing used to calculate infiltration rate

		Water	Water	Total		Initial	Final	Change in	Average	
	Test	Depth	Depth	Depth of	Hole	Water	Water	Height of	Height of	Infiltration
Test Well	Duration	Initial	Final	Test Hole	Diameter	Height	Height	Water	Water	Rate
	(min)	(ft)	(ft)	(ft)	(inches)	(ft)	(ft)	(ft)	(ft)	(in/hr)
	Δt	D_o	D_f	D_T		H_o	H_f	$\Delta H=\Delta D$	H_{avg}	I_t
P-101	10	0.00	0.28	1.13	8	1.13	0.85	0.28	0.99	2.9
P-101	10	0.00	0.26	1.13	8	1.13	0.87	0.26	1.00	2.7
P-101	10	0.00	0.25	1.13	8	1.13	0.88	0.25	1.00	2.6
P-101	10	0.00	0.24	1.13	8	1.13	0.89	0.24	1.01	2.5
P-101	10	0.00	0.24	1.13	8	1.13	0.89	0.24	1.01	2.5
P-101	10	0.00	0.23	1.13	8	1.13	0.90	0.23	1.01	2.3
P-101	10	0.00	0.22	1.13	8	1.13	0.91	0.22	1.02	2.2
P-101	10	0.00	0.22	1.13	8	1.13	0.91	0.22	1.02	2.2

Test Date 8/8/2017 NOTE: Slowest rate from percolation testing used to calculate infiltration rate

		Water	Water	Total		Initial	Final	Change in	Average	
	Test	Depth	Depth	Depth of	Hole	Water	Water	Height of	Height of	Infiltration
Test Well	Duration	Initial	Final	Test Hole	Diameter	Height	Height	Water	Water	Rate
	(min)	(ft)	(ft)	(ft)	(inches)	(ft)	(ft)	(ft)	(ft)	(in/hr)
	Δt	D_o	D_f	D_T		H_o	H_f	$\Delta H=\Delta D$	H_{avg}	I_t
P-102	10	0.08	0.33	1.08	8	1.00	0.75	0.25	0.88	2.9
P-102	10	0.08	0.32	1.08	8	1.00	0.76	0.24	0.88	2.8
P-102	10	0.08	0.32	1.08	8	1.00	0.76	0.24	0.88	2.8
P-102	10	0.08	0.30	1.08	8	1.00	0.78	0.22	0.89	2.5
P-102	10	0.08	0.30	1.08	8	1.00	0.78	0.22	0.89	2.5
P-102	10	0.08	0.29	1.08	8	1.00	0.79	0.21	0.90	2.4
P-102	10	0.08	0.27	1.08	8	1.00	0.81	0.19	0.91	2.1
P-102	10	0.08	0.27	1.08	8	1.00	0.81	0.19	0.91	2.1

APPENDIX A

APPENDIX A

EXPLORATORY BORINGS

The subsurface conditions at the site were investigated by drilling and sampling 20 exploratory borings over two separate field investigations at the subject site. A total of 17 borings (B-1 through B-17), located on the eastern half of the site, were performed in January 2009. Three borings (B-101 through B-103) were performed as part of the current investigation. The borings were advanced to depths ranging from 11 to 39 feet below the existing ground surface (at the time of drilling). Several explorations were terminated prior to the planned depths after meeting practical refusal on dense native soils or possible due to the presence of cobbles or boulders. The locations of the explorations from both investigations are shown on the Site Plan, Figure 2.

The exploratory boring was drilled using truck-mounted hollow-stem auger drill equipment. Relatively undisturbed samples were obtained using a brass ring lined sampler (ASTM D 3550). The brass rings have an inside diameter of 2.42 inches. The ring samples were driven into the soil by a 140-pound hammer dropping 30 inches. The number of blows needed to drive the sampler into the soil was recorded as the penetration resistance.

At selected locations, disturbed samples were obtained using a split-spoon sampler by means of the Standard Penetration Test (SPT, ASTM D 6066). The spoon sampler was driven into the soil by a 140-pound hammer dropping 30 inches, employing the “free-fall” hammer described above. After an initial seating drive of 6 inches, the number of blows needed to drive the sampler into the soil a depth of 12 inches was recorded as the penetration resistance. These values are the raw uncorrected blowcounts.

The field explorations for the investigation were performed under the continuous technical supervision of GPI's representative, who visually inspected the site, maintained detailed logs of the borings, classified the soils encountered, and obtained relatively undisturbed samples for examination and laboratory testing. The site contains topsoil/weathered bedrock over bedrock materials. However, the materials encountered in the borings were classified in the field and through further examination in the laboratory in accordance with the Unified Soils Classification System. Detailed logs of the borings are presented in Figures A-1 to A-20 in this appendix.

The boring locations were laid out in the field based on the available site plans, topographic information, and by measuring from existing site features. Ground surface elevations for the explorations from our 2009 investigation were obtained from a topographic map. Elevations for explorations from the current investigation were estimated from internet sources. In both cases, the ground surface elevations should be considered approximate.

MOISTURE (%)	DRY DENSITY (PCF)	PENETRATION RESISTANCE (BLOWS/FOOT)	SAMPLE TYPE	DEPTH (FEET)	DESCRIPTION OF SUBSURFACE MATERIALS	ELEVATION (FEET)
				0	This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.	
10.3	122	25	D		Weathered Granitic Bedrock: **SILTY SAND (SM)** brown, moist @ 2 ft, medium dense	
5.8		50	S	5		1515
3.8	110	50/4"	D		Moderately Weathered Granitic Bedrock: **SILTY SAND (SM)** brown, moist, very dense @ 7 ft, dry	
2.3		50/5"	S	10		1510
17.8		50/3"	D	15	@ 15 ft, light brown, very moist, increase of fines and trace of gravel	1505
2.8		50/5"	S	20	@ 20 ft, brown, dry	1500
4.6		50/5"	S	25		1495
					Total Depth 26 ft	

SAMPLE TYPES
- C Rock Core
- S Standard Split Spoon
- D Drive Sample
- B Bulk Sample
- T Tube Sample

DATE DRILLED: 1-19-09

EQUIPMENT USED: 8 " Hollow Stem Auger

GROUNDWATER LEVEL (ft): Not Encountered

GPI

PROJECT NO.: 2833.I

VINEYARD/VAL VISTA

LOG OF BORING NO. B-1

FIGURE A-1

MOISTURE (%)	DRY DENSITY (PCF)	PENETRATION RESISTANCE (BLOWS/FOOT)	SAMPLE TYPE	DEPTH (FEET)	DESCRIPTION OF SUBSURFACE MATERIALS	ELEVATION (FEET)
			B	0	Weathered Granitic Bedrock: **SILTY SAND (SM)** brown, moist	
5.4	127	75/10"	D		Moderately Weathered Granitic Bedrock: **SILTY SAND (SM)** slightly moist, light brown to brown, very dense	1510
3.3		50/4"	D	5	@ 5 ft, brown, dry, with gravel	
2.2		50/3"	D			1505
2.0		50/3"	D	10		
		50/2"	D	15	@ 15 ft, no sample recovery	1500
2.0		50/3"	S			
					Total Depth 17 ft	

This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.

SAMPLE TYPES
- C Rock Core
- S Standard Split Spoon
- D Drive Sample
- B Bulk Sample
- T Tube Sample

DATE DRILLED: 1-19-09

EQUIPMENT USED: 8 " Hollow Stem

GROUNDWATER LEVEL (ft): Not Encountered

GPI

PROJECT NO.: 2833.1
VINEYARD/VAL VISTA

LOG OF BORING NO. B-2

FIGURE A-2

MOISTURE (%)	DRY DENSITY (PCF)	PENETRATION RESISTANCE (BLOWS/FOOT)	SAMPLE TYPE	DEPTH (FEET)	DESCRIPTION OF SUBSURFACE MATERIALS This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.	ELEVATION (FEET)
				0	Weathered Granitic Bedrock: **SAND (SP)** brown, slightly moist, with gravel	
3.4	127	50/6"	D		Moderately Weathered Granitic Bedrock: **SAND (SP)** brown, trace of silt, dry, very dense, with gravel	
2.3		50/4"	D	5		1515
7.6		50/5"	S		**SILTY SAND (SM)** brown, slightly moist, very dense, with gravel	
24.9		36	S	10	**SANDY SILT (ML)** light brown, very moist, very stiff, with gravel (highly weathered)	1510
18.2		16	S	15	@ 15 ft, stiff	1505
3.1		50/3"	D	20	**SILTY CLAY (CL)** brown, dry, hard, with gravel	1500
					Total Depth 21 ft	

SAMPLE TYPES
- C Rock Core
- S Standard Split Spoon
- D Drive Sample
- B Bulk Sample
- T Tube Sample

DATE DRILLED: 1-19-09

EQUIPMENT USED: 8 " Hollow Stem Auger

GROUNDWATER LEVEL (ft): Not Encountered

GPI

PROJECT NO.: 2833.I

VINEYARD/VAL VISTA

LOG OF BORING NO. B-3

FIGURE A-3

MOISTURE (%)	DRY DENSITY (PCF)	PENETRATION RESISTANCE (BLOWS/FOOT)	SAMPLE TYPE	DEPTH (FEET)	DESCRIPTION OF SUBSURFACE MATERIALS	ELEVATION (FEET)
					This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.	
			B	0	Weathered Granitic Bedrock: **SILTY SAND (SM)** brown, moist	
6.9	135	59	D		@ 2 ft, slightly moist, dense, trace of gravel	
3.5		50/6"	S	5	Moderately Weathered Granitic Bedrock: **SAND WITH SILT (SP-SM)** brown, dry, very dense, with gravel	1510
3.2		50/5"	S		**SILTY SAND (SM)** brown, dry, very dense, trace of gravel	
2.4		50/5"	S	10		1505
2.2		50/4"	S	15	**SAND WITH SILT (SP-SM)** brown, dry, very dense, with gravel	1500
2.1		50/4"	S	20	**SILTY SAND (SM)** brown, dry, very dense, with gravel	1495
1.8		50/2"	S	25	**SAND WITH SILT (SP-SM)** brown, dry, very dense, with gravel	1490
					Total Depth 26 ft	

SAMPLE TYPES
- C Rock Core
- S Standard Split Spoon
- D Drive Sample
- B Bulk Sample
- T Tube Sample

DATE DRILLED: 1-19-09

EQUIPMENT USED: 8 " Hollow Stem Auger

GROUNDWATER LEVEL (ft): Not Encountered

GPI

PROJECT NO.: 2833.I

VINEYARD/VAL VISTA

LOG OF BORING NO. B-4

FIGURE A-4

MOISTURE (%)	DRY DENSITY (PCF)	PENETRATION RESISTANCE (BLOWS/FOOT)	SAMPLE TYPE	DEPTH (FEET)	DESCRIPTION OF SUBSURFACE MATERIALS	ELEVATION (FEET)
				0	This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.	
					Weathered Granitic Bedrock: **SILTY SAND (SM)** light brown, moist, with gravel	1510
8.6	117	83/11"	D		Moderately Weathered Granitic Bedrock: **SILTY SAND (SM)** light brown, moist, very dense, with gravel	
7.9	112	50/5"	D	5		
4.3	128	52	D		@ 7 ft, light brown to brown, dry, dense	1505
		50/3"	D	10	@ 10 ft, no sample recovery	1500
1.9		50/3"	D	15	**SAND WITH SILT (SP-SM)** brown, dry, very dense, with gravel	
					Total Depth 16 ft	

SAMPLE TYPES
- C Rock Core
- S Standard Split Spoon
- D Drive Sample
- B Bulk Sample
- T Tube Sample

DATE DRILLED: 1-19-09

EQUIPMENT USED: 8 " Hollow Stem Auger

GROUNDWATER LEVEL (ft): Not Encountered

GPI

PROJECT NO.: 2833.I

VINEYARD/VAL VISTA

LOG OF BORING NO. B-5

FIGURE A-5

MOISTURE (%)	DRY DENSITY (PCF)	PENETRATION RESISTANCE (BLOWS/FOOT)	SAMPLE TYPE	DEPTH (FEET)	DESCRIPTION OF SUBSURFACE MATERIALS	ELEVATION (FEET)
				0	This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.	
					Weathered Granitic Bedrock: **SILTY SAND (SM)** brown, moist	
13.0	116	80/9"	D		Moderately Weathered Granitic Bedrock: **SILTY SAND (SM)** brown, moist, very dense, with gravel and trace clay	1505
6.7	100	80/9"	D	5	**SAND WITH SILT (SP-SM)** light brown, slightly moist, very dense	
8.6	113	50/5"	D		**SILTY SAND (SM)** light brown, moist, very dense, with gravel	1500
13.0		50/5"	S	10	**SANDY SILT (ML)** light brown, moist, hard, with gravel	
					Auger Refusal at 13 ft, likely the presence of boulders/cobbles	1495

SAMPLE TYPES
- C Rock Core
- S Standard Split Spoon
- D Drive Sample
- B Bulk Sample
- T Tube Sample

DATE DRILLED: 1-19-09

EQUIPMENT USED: 8 " Hollow Stem Auger

GROUNDWATER LEVEL (ft): Not Encountered

GPI

PROJECT NO.: 2833.I

VINEYARD/VAL VISTA

LOG OF BORING NO. B-6

FIGURE A-6

MOISTURE (%)	DRY DENSITY (PCF)	PENETRATION RESISTANCE (BLOWS/FOOT)	SAMPLE TYPE	DEPTH (FEET)	DESCRIPTION OF SUBSURFACE MATERIALS	ELEVATION (FEET)
				0	This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.	
					Weathered Granitic Bedrock: **SILTY SAND (SM)** brown, moist	
3.4	144	88	D		Moderately Weathered Granitic Bedrock: **SILTY SAND (SM)** brown, dry, very dense, with gravel	1505
2.8	119	50/6"	D	5	**SAND WITH SILT (SW-SM)** brown, dry, very dense	
1.6		50/5"	D		@ 7 ft, with gravel	1500
2.5		50/2"	S	10		
						1495
4.6		50/5"	D	15	@ 15 ft, slightly moist	
					Auger Refusal at 16 ft, likely the presence of boulders/cobbles	

SAMPLE TYPES
- C Rock Core
- S Standard Split Spoon
- D Drive Sample
- B Bulk Sample
- T Tube Sample

DATE DRILLED: 1-19-09

EQUIPMENT USED: 8 " Hollow Stem Auger

GROUNDWATER LEVEL (ft): Not Encountered

GPI

PROJECT NO.: 2833.I

VINEYARD/VAL VISTA

LOG OF BORING NO. B-7

FIGURE A-7

MOISTURE (%)	DRY DENSITY (PCF)	PENETRATION RESISTANCE (BLOWS/FOOT)	SAMPLE TYPE	DEPTH (FEET)	DESCRIPTION OF SUBSURFACE MATERIALS	ELEVATION (FEET)
					This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.	
				0	Natural Soil: **SILTY SAND (SM)**brown, moist	
8.7	106	8	D		@ 2 ft, loose, trace of porosity	
				5		1515
2.8	104	31	D		Weathered Granitic Bedrock: **SILTY SAND (SM)** reddish brown, dry, medium dense	
3.4	116	63	D		Moderately Weathered Granitic Bedrock: **SAND WITH SILT(SP-SM)**red to brown, dry, dense, trace of gravel	
1.2		50/4"	S	10	@ 10 ft, very dense, with gravel	1510
				15	@ 15 ft, greyish brown	1505
1.7		50/4"	D		Total Depth 16 ft	

SAMPLE TYPES
- C Rock Core
- S Standard Split Spoon
- D Drive Sample
- B Bulk Sample
- T Tube Sample

DATE DRILLED: 1-19-09

EQUIPMENT USED: 8 " Hollow Stem Auger

GROUNDWATER LEVEL (ft): Not Encountered

GPI

PROJECT NO.: 2833.I

VINEYARD/VAL VISTA

LOG OF BORING NO. B-8

FIGURE A-8

MOISTURE (%)	DRY DENSITY (PCF)	PENETRATION RESISTANCE (BLOWS/FOOT)	SAMPLE TYPE	DEPTH (FEET)	DESCRIPTION OF SUBSURFACE MATERIALS	ELEVATION (FEET)
					This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.	
				0		
10.1	125	58	D		Weathered Granitic Bedrock: **SILTY SAND (SM)** brown, moist @ 2 ft, dense, with gravel	1515
2.9		50/5"	D	5	Moderately Weathered Granitic Bedrock: **SAND WITH SILT(SP-SM)** light brown, dry, very dense, with gravel	1510
1.6		50/4"	S		**SILTY SAND (SM)** light brown, dry, with trace of gravel	
1.4		50/3"	S	10	**SAND WITH SILT (SP-SM)** light brown, dry, very dense, with gravel	1505
1.7		50/3"	S	15		
					Total Depth 16 ft	1500

SAMPLE TYPES
- C Rock Core
- S Standard Split Spoon
- D Drive Sample
- B Bulk Sample
- T Tube Sample

DATE DRILLED: 1-19-09

EQUIPMENT USED: 8 " Hollow Stem Auger

GROUNDWATER LEVEL (ft): Not Encountered

GPI

PROJECT NO.: 2833.I

VINEYARD/VAL VISTA

LOG OF BORING NO. B-9

FIGURE A-9

MOISTURE (%)	DRY DENSITY (PCF)	PENETRATION RESISTANCE (BLOWS/FOOT)	SAMPLE TYPE	DEPTH (FEET)	DESCRIPTION OF SUBSURFACE MATERIALS	ELEVATION (FEET)
				0	This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.	
					Weathered Granitic Bedrock: **SILTY SAND (SM)** brown, moist	1505
6.2	136	80/10"	D		Moderately Weathered Granitic Bedrock: **SILTY SAND (SM)** brown, slightly moist, very dense, with gravel	
1.3		50/3"	D	5	**SAND WITH SILT (SP-SM)** with gravel, brown, dry, very dense	
4.6		50/1"	D		**SILTY SAND (SM)** with gravel, light brown, slightly moist, very dense	1500
		50/5"	D	10	@ 10 ft, no sample recovery	1495
1.0		50/4"	D	15	**SAND WITH SILT (SP-SM)** grey, dry, very dense, with gravel	
					Total Depth 16 ft	

SAMPLE TYPES
- C Rock Core
- S Standard Split Spoon
- D Drive Sample
- B Bulk Sample
- T Tube Sample

DATE DRILLED: 1-19-09

EQUIPMENT USED: 8 " Hollow Stem Auger

GROUNDWATER LEVEL (ft): Not Encountered

GPI

PROJECT NO.: 2833.I

VINEYARD/VAL VISTA

LOG OF BORING NO. B-10

FIGURE A-10

MOISTURE (%)	DRY DENSITY (PCF)	PENETRATION RESISTANCE (BLOWS/FOOT)	SAMPLE TYPE	DEPTH (FEET)	DESCRIPTION OF SUBSURFACE MATERIALS	ELEVATION (FEET)
				0	This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.	
9.3	119	25	D		Weathered Granitic Bedrock: **SILTY SAND (SM)** brown, moist @ 2 ft, light brown, medium dense, with gravel	
1.4		50/5"	D	5	Moderately Weathered Granitic Bedrock: **SAND (SP)** light brown, dry, very dense	1510
1.8	128	50/5"	D		**SAND WITH SILT (SP-SM)**light brown, dry, very dense, with gravel	
1.4		50/3"	S	10		1505
					Total Depth 11 ft	

SAMPLE TYPES
- C Rock Core
- S Standard Split Spoon
- D Drive Sample
- B Bulk Sample
- T Tube Sample

DATE DRILLED: 1-19-09

EQUIPMENT USED: 8 " Hollow Stem Auger

GROUNDWATER LEVEL (ft): Not Encountered

GPI

PROJECT NO.: 2833.I

VINEYARD/VAL VISTA

LOG OF BORING NO. B-11

FIGURE A-11

MOISTURE (%)	DRY DENSITY (PCF)	PENETRATION RESISTANCE (BLOWS/FOOT)	SAMPLE TYPE	DEPTH (FEET)	DESCRIPTION OF SUBSURFACE MATERIALS	ELEVATION (FEET)
				0	This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.	
9.1	109	6	D		Natural Soil: **SILTY SAND (SM)**brown, moist @ 2 ft, trace of porosity, very loose to loose	
		75/10"	D	5	Moderately Weathered Granitic Bedrock: **SILTY SAND (SM)** light brown, dry, very dense, with trace of gravel	1510
		50/3"	S		@ 7 ft, no sample recovery	
2.1		50/1"	S	10		1505
					Total Depth 11 ft	

SAMPLE TYPES
- C Rock Core
- S Standard Split Spoon
- D Drive Sample
- B Bulk Sample
- T Tube Sample

DATE DRILLED: 1-19-09

EQUIPMENT USED: 8 " Hollow Stem Auger

GROUNDWATER LEVEL (ft): Not encountered

GPI

PROJECT NO.: 2833.I

VINEYARD/VAL VISTA

LOG OF BORING NO. B-12

FIGURE A-12

MOISTURE (%)	DRY DENSITY (PCF)	PENETRATION RESISTANCE (BLOWS/FOOT)	SAMPLE TYPE	DEPTH (FEET)	DESCRIPTION OF SUBSURFACE MATERIALS	ELEVATION (FEET)
					This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.	
				0	Natural Soil: **SILTY SAND (SM)** brown, moist, very loose to loose	1515
9.7	111	6	D			
2.5	123	72	D	5	Moderately Weathered Granitic Bedrock: **SILTY SAND (SM)** brown, dry, trace of porosity, very dense, with gravel	1510
2.0		50/5"	S		**SAND WITH SILT (SP-SM)** light brown, dry, very dense, with trace of gravel	
2.5		50/5"	S	10	@ 10 ft, with gravel	
					Total Depth 11 ft	

SAMPLE TYPES
- C Rock Core
- S Standard Split Spoon
- D Drive Sample
- B Bulk Sample
- T Tube Sample

DATE DRILLED: 1-19-09

EQUIPMENT USED: 8 " Hollow Stem Auger

GROUNDWATER LEVEL (ft): Not encountered

GPI

PROJECT NO.: 2833.I

VINEYARD/VAL VISTA

LOG OF BORING NO. B-13

FIGURE A-13

MOISTURE (%)	DRY DENSITY (PCF)	PENETRATION RESISTANCE (BLOWS/FOOT)	SAMPLE TYPE	DEPTH (FEET)	DESCRIPTION OF SUBSURFACE MATERIALS	ELEVATION (FEET)
					This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.	
			B	0	Natural Soil: **SANDY SILT (ML)**brown, moist, trace of clay	
12.0	125	34	D		Weathered Granitic Bedrock: **SILTY SAND (SM)**light brown, moist, medium dense	1500
1.9		50/4"	D	5	Moderately Weathered Granitic Bedrock: **SAND WITH SILT (SP-SM)**brown, dry, very dense, with gravel	
2.2		50/4"	S			1495
2.2		50/3"	S	10		1490
7.0		73	S	15	**SILTY SAND (SM)**grey to brown, slightly moist, very dense, with gravel	
					Total Depth 16 ft	

SAMPLE TYPES
- C Rock Core
- S Standard Split Spoon
- D Drive Sample
- B Bulk Sample
- T Tube Sample

DATE DRILLED: 1-19-09

EQUIPMENT USED: 8 " Hollow Stem Auger

GROUNDWATER LEVEL (ft): Not encountered

GPI

PROJECT NO.: 2833.I

VINEYARD/VAL VISTA

LOG OF BORING NO. B-14

FIGURE A-14

MOISTURE (%)	DRY DENSITY (PCF)	PENETRATION RESISTANCE (BLOWS/FOOT)	SAMPLE TYPE	DEPTH (FEET)	DESCRIPTION OF SUBSURFACE MATERIALS	ELEVATION (FEET)
					This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.	
			B	0	Natural Soil: **SILTY SAND (SM)** brown, moist	1525
9.3	109	6	D		@ 2 ft, trace of porosity, very loose to loose	
4.0	108	39	D	5	Weathered Granitic Bedrock: **SILTY SAND (SM)** brown, dry, medium dense, trace gravel	1520
2.3		50/4"	S		Moderately Weathered Granitic Bedrock: **SILTY SAND (SM)** brownish grey, very dense	
2.2		50/6"	S	10	**SAND WITH SILT (SP-SM)** light brown, dry, very dense, trace of gravel	1515
		50/1"	S	15	@ 15 ft, no sample recovery	1510
					Total Depth 15 ft	

SAMPLE TYPES
- C Rock Core
- S Standard Split Spoon
- D Drive Sample
- B Bulk Sample
- T Tube Sample

DATE DRILLED: 1-20-09

EQUIPMENT USED: 8 " Hollow Stem Auger

GROUNDWATER LEVEL (ft): Not encountered

GPI

PROJECT NO.: 2833.I

VINEYARD/VAL VISTA

LOG OF BORING NO. B-15

FIGURE A-15

MOISTURE (%)	DRY DENSITY (PCF)	PENETRATION RESISTANCE (BLOWS/FOOT)	SAMPLE TYPE	DEPTH (FEET)	DESCRIPTION OF SUBSURFACE MATERIALS	ELEVATION (FEET)
			B	0	Natural Soil: **SILTY SAND (SM)** brown, moist, loose	
8.5	109	8	D			
						1515
4.6	111	39	D	5	Weathered Granitic Bedrock: **SILTY SAND (SM)** brown, slightly moist, medium dense, trace gravel	
4.4	134	80/11"	D		Moderately Weathered Granitic Bedrock: **SILTY SAND (SM)** light brown, very dense	
						1510
1.8		50/2"	S	10	@ 10 ft, dry, with gravel	
						1505
		50/1"	S	15		
					Total Depth 16 ft	

SAMPLE TYPES
- C Rock Core
- S Standard Split Spoon
- D Drive Sample
- B Bulk Sample
- T Tube Sample

DATE DRILLED: 1-20-09

EQUIPMENT USED: 8 " Hollow Stem Auger

GROUNDWATER LEVEL (ft): Not encountered

GPI

PROJECT NO.: 2833.I

VINEYARD/VAL VISTA

LOG OF BORING NO. B-16

FIGURE A-16

MOISTURE (%)	DRY DENSITY (PCF)	PENETRATION RESISTANCE (BLOWS/FOOT)	SAMPLE TYPE	DEPTH (FEET)	DESCRIPTION OF SUBSURFACE MATERIALS	ELEVATION (FEET)
					This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.	
			B	0	Natural Soil: **SILTY SAND (SM)** brown, moist	
5.5	92	11	D		**SANDY SILT (ML)** light brown, slightly moist, firm, with gravel	1515
1.9	133	80/11"	D	5	Moderately Weathered Granitic Bedrock: **SILTY SAND (SM)** light brown, dry, very dense	
		50/5"	S		@ 7 ft, no sample recovery	1510
2.4		50/1"	S	10	@ 10 ft, grey, with gravel	
					Total Depth 11 ft	

SAMPLE TYPES
- C Rock Core
- S Standard Split Spoon
- D Drive Sample
- B Bulk Sample
- T Tube Sample

DATE DRILLED: 1-20-09

EQUIPMENT USED: 8 " Hollow Stem Auger

GROUNDWATER LEVEL (ft): Not encountered

GPI

PROJECT NO.: 2833.I

VINEYARD/VAL VISTA

LOG OF BORING NO. B-17

FIGURE A-17

MOISTURE (%)	DRY DENSITY (PCF)	PENETRATION RESISTANCE (BLOWS/FOOT)	SAMPLE TYPE	DEPTH (FEET)	DESCRIPTION OF SUBSURFACE MATERIALS	ELEVATION (FEET)
			B	0	Natural: **SANDY SILT (ML)** brown, dry to slightly moist	
10.1	106	64	D		Weathered Granitic Bedrock: **SAND (SP)** red brown, moist, dense	1545
3.8	121	85/11"	D	5	Moderately Weathered Granitic Bedrock: **SILTY SAND (SM)** brown, slightly moist, very dense	
3.7	108	50/5"	D			1540
3.7	110	50/5"	D	10	@ 10 feet, trace gravel	
						1535
4.1		77/11"	S	15	@ 15 feet, grey	
						1530
3.0		50/5"	S	20		
						1525
3.3		50/4"	S	25		
						1520
2.8		50/3	S	30		
						1515
2.9		50/1.5"	S	35		
2.7		50/2"	S			
					Refusal @ 38 feet	

This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.

SAMPLE TYPES
- C Rock Core
- S Standard Split Spoon
- D Drive Sample
- B Bulk Sample
- T Tube Sample

DATE DRILLED: 8-8-17
EQUIPMENT USED: 8 " Hollow Stem Auger
GROUNDWATER LEVEL (ft): Not Encountered

GPI

PROJECT NO.: 2833.I
VINEYARD/VAL VISTA

LOG OF BORING NO. B-101

FIGURE A-18

MOISTURE (%)	DRY DENSITY (PCF)	PENETRATION RESISTANCE (BLOWS/FOOT)	SAMPLE TYPE	DEPTH (FEET)	DESCRIPTION OF SUBSURFACE MATERIALS	ELEVATION (FEET)
					This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.	
			B	0	Natural: **SILTY SAND (SM)** dry to slightly moist, brown, very dense, with gravel	1540
6.1	114	79	D			
5.1	103	50/4"	D	5	Weathered Granitic Bedrock: **SAND with SILT (SP-SM) brown, slightly moist, very dense**	1535
8.0	118	50/5"	D		Moderately Weathered Granitic Bedrock: **SILTY SAND (SM)** brown, moist, very dense, with gravel	
5.3		72/9"	S	10	@ 10 feet, slightly moist, trace gravel	1530
1.7		50/2"	D	15	**SAND with SILT (SP-SM)** brown, dry, very dense, with gravel	1525
1.5		50/2"	S	20	**SAND (SP)** grey, dry, very dense	1520
1.8		50/3"	S	25		1515
		50/1"	S	30	@ 10 feet, no recovery	
					Refusal @ 31 feet	

SAMPLE TYPES
- C Rock Core
- S Standard Split Spoon
- D Drive Sample
- B Bulk Sample
- T Tube Sample

DATE DRILLED: 8-8-17
EQUIPMENT USED: 8 " Hollow Stem Auger
GROUNDWATER LEVEL (ft): Not Encountered

GPI

PROJECT NO.: 2833.I
VINEYARD/VAL VISTA

LOG OF BORING NO. B-102

FIGURE A-19

MOISTURE (%)	DRY DENSITY (PCF)	PENETRATION RESISTANCE (BLOWS/FOOT)	SAMPLE TYPE	DEPTH (FEET)	DESCRIPTION OF SUBSURFACE MATERIALS	ELEVATION (FEET)
					This summary applies only at the location of this boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.	
				0	Natural: **SILTY SAND (SM)** brown, dry to slightly moist, dense to very dense with gravel	
3.8	123	75	D		@ 2 feet, moist	
						1540
3.6	104	50/4"	D	5	Weathered Granitic Bedrock: **SILTY SAND (SM)** brown, slightly moist, very dense	
4.4	113	50/2"	D			
3.9						1535
3.3		50/3"	D	10	Moderately Weathered Granitic Bedrock: **SILTY SAND (SM)** brown, slightly moist, very dense, with gravel	
						1530
2.3		50/1.5"	S	15		
						1525
2.0		50/1.5"	D	20		
						1520
2.5		50/2"	S	25		
						1515
6.5		50/1.5"	D	30		
		50/1"	S			
					Refusal @ 33 feet	

SAMPLE TYPES
- C Rock Core
- S Standard Split Spoon
- D Drive Sample
- B Bulk Sample
- T Tube Sample

DATE DRILLED: 8-8-17
EQUIPMENT USED: 8 " Hollow Stem Auger
GROUNDWATER LEVEL (ft): Not Encountered

GPI

PROJECT NO.: 2833.I
VINEYARD/VAL VISTA

LOG OF BORING NO. B-103

FIGURE A-20

APPENDIX B

APPENDIX B

LABORATORY TESTS

INTRODUCTION

Representative undisturbed soil samples and bulk samples were carefully packaged in the field and sealed to prevent moisture loss. The samples were then transported to our Cypress office for examination and testing assignments. Laboratory tests were performed on selected representative samples as an aid in classifying the soils and to evaluate the physical properties of the soils affecting foundation design and construction procedures. Detailed descriptions of the laboratory tests are presented below under the appropriate test headings. Test results are presented in the figures that follow.

MOISTURE CONTENT AND DRY DENSITY

Moisture content and dry density were determined from a number of the samples. The samples were first trimmed to obtain volume, weighed to determined the wet weight, and then were dried in accordance with ASTM D 2216. After drying, the weight of each sample was measured, and moisture content and dry density were calculated. Moisture content and dry density values are presented on the boring logs in Appendix A.

GRAIN SIZE DISTRIBUTION

Multiple soil samples were dried, weighed, soaked in water until individual soil particles were separated, and then washed on the No. 200 sieve. That portion of the material retained on the No. 200 sieve was oven-dried and weighed to determine the percentage of the material passing the No. 200 sieve. For select samples, the retained material was then run through a standard set of sieves in accordance with ASTM D 422 to classify the coarse fraction of representative sample. A summary of the percentages passing the No. 200 sieve is presented below. The grain size distribution data obtained from the full sieve analyses are presented in Figures B-1 to B-3.

BORING NO.	DEPTH (ft)	SOIL DESCRIPTION	PERCENT PASSING No. 200 SIEVE
B-2	2	Silty Sand (SM)	25
B-6	5	Sand with Silt (SP-SM)	8
B-8	5	Silty Sand (SM)	27
B-11	7	Sand with Silt (SP-SM)	10
B-12	5	Silty Sand (SM)	21
B-14	0 – 5	Silty Sand (SM)	38
B-15	0 – 5	Silty Sand (SM)	32
B-15	2	Silty Sand (SM)	30

BORING NO.	DEPTH (ft)	SOIL DESCRIPTION	PERCENT PASSING No. 200 SIEVE
B-15	5	Silty Sand (SM)	28
B-15	10	Sand with Silt (SP-SM)	11
B-16	2	Silty Sand (SM)	27
B-16	5	Silty Sand (SM)	31
B-16	7	Silty Sand (SM)	17
B-16	10	Silty Sand (SM)	13
B-17	0 – 5	Silty Sand (SM)	35
B-17	2	Sandy Silt (ML)	53
B-17	10	Silty Sand (SM)	16
B-101	2	Sandy Silt (ML)	53
B-101	7	Silty Sand (SM)	17
B-102	5	Sand with Silt (SP-SM)	11
B-102	10	Silty Sand (SM)	21
B-103	5	Silty Sand (SM)	16
B-103	10	Silty Sand (SM)	13

ATTERBERG LIMITS

Liquid and plastic limits were determined for select samples of cohesive material in accordance with ASTM D 4318. Results of the Atterberg Limits tests are summarized on Figure B-4.

DIRECT SHEAR

Direct shear tests were performed on undisturbed and remolded bulk samples in accordance with ASTM D 3080. The bulk sample was remolded to approximately 90 percent of maximum density (ASTM D1557). The samples were placed in the shear machine, and a normal load comparable to the in-situ overburden stress was applied. The samples were inundated, allowed to consolidate, and then were sheared to failure. The tests were repeated on additional test specimens under increased normal loads. Shear stress and sample deformation were monitored throughout the test. The results of the direct shear tests are presented in Figures B-5 to B-7.

COMPACTION TEST

Maximum dry density/optimum moisture tests were performed in accordance with ASTM D 1557 on select, representative bulk samples of the site soils. The test results are as follows:

BORING NO.	DEPTH (ft)	SOIL DESCRIPTION	OPIMUM MOISTURE (%)	MAXIMUM DRY DENSITY (pcf)
B-14	0 – 5	Silty Sand (SM)	9.0	133
B-16	0 – 5	Silty Sand (SM)	8.0	132

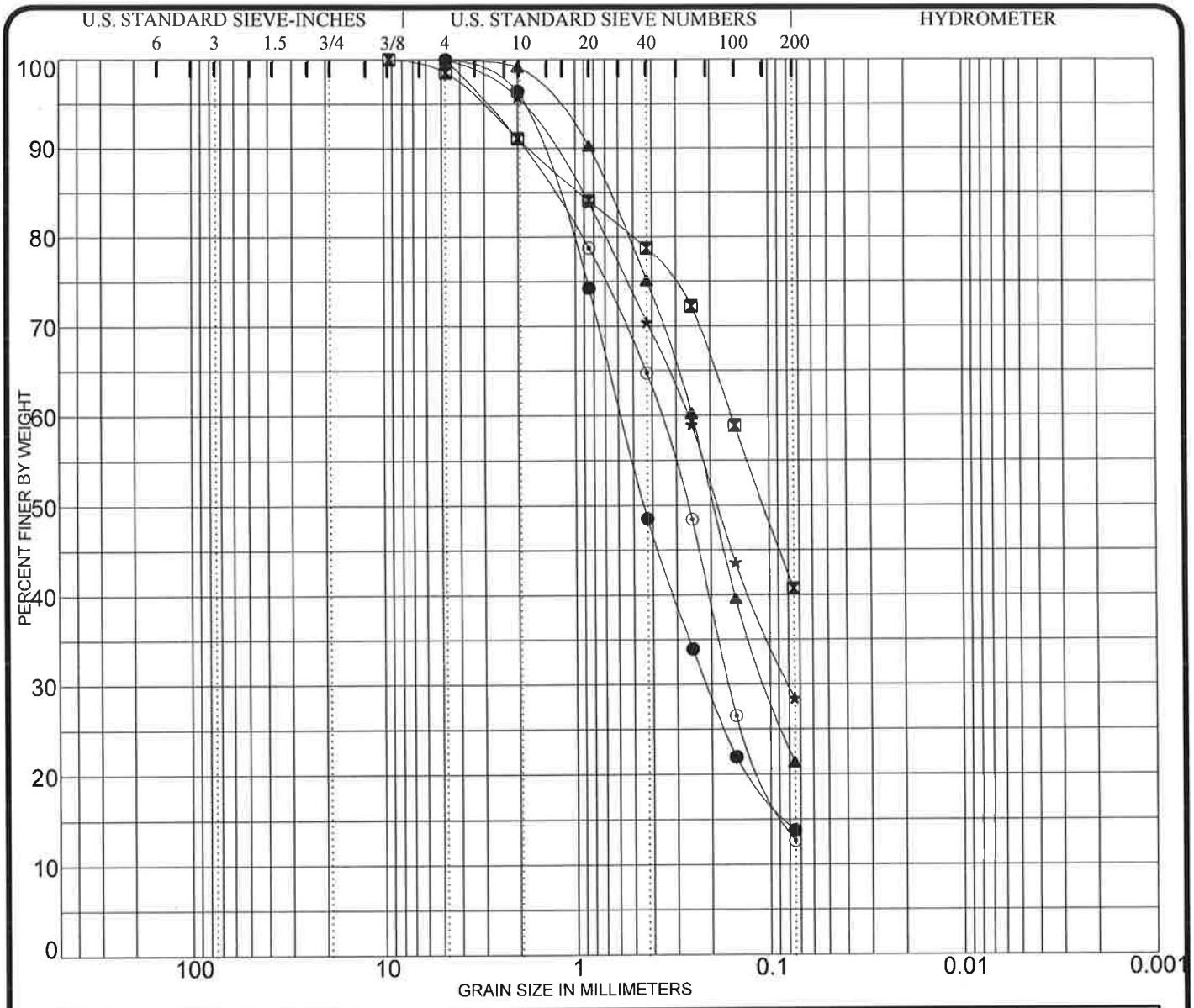
R-VALUE

Suitability of the near-surface soils for pavement was evaluated by conducting an R-value test. The test was performed in accordance with ASTM D 2844 by GeoLogic Associates (GLA) under subcontract to GPI. The result of the test is as follows:

BORING NO.	DEPTH (ft)	SOIL DESCRIPTION	R-VALUE BY EXPANSION
B-16	0 – 5	Silty Sand (SM)	63

CORROSIVITY

Soil corrosivity testing was performed by Schiff and Associates (currently HDR) on a soil samples provided by GPI. The test results are summarized in Table 1 of this Appendix.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

	Sample Location		Classification	MC%	LL	PL	PI	Cc	Cu
●	B-1	5.0	SILTY SAND (SM)						
⊠	B-1	15.0	SILTY SAND (SM)						
▲	B-15	7.0	SILTY SAND (SM)						
★	B-16	0.0	SILTY SAND (SM)						
⊙	B-17	5.0	SILTY SAND (SM)						

	Sample Location		D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
●	B-1	5.0	4.75	0.58	0.211		0.0	86.2	13.8	
⊠	B-1	15.0	9.35	0.16			1.5	57.8	40.7	
▲	B-15	7.0	4.75	0.25	0.104		0.0	78.7	21.3	
★	B-16	0.0	4.75	0.26	0.081		0.0	71.6	28.4	
⊙	B-17	5.0	4.75	0.36	0.163		0.0	87.4	12.6	

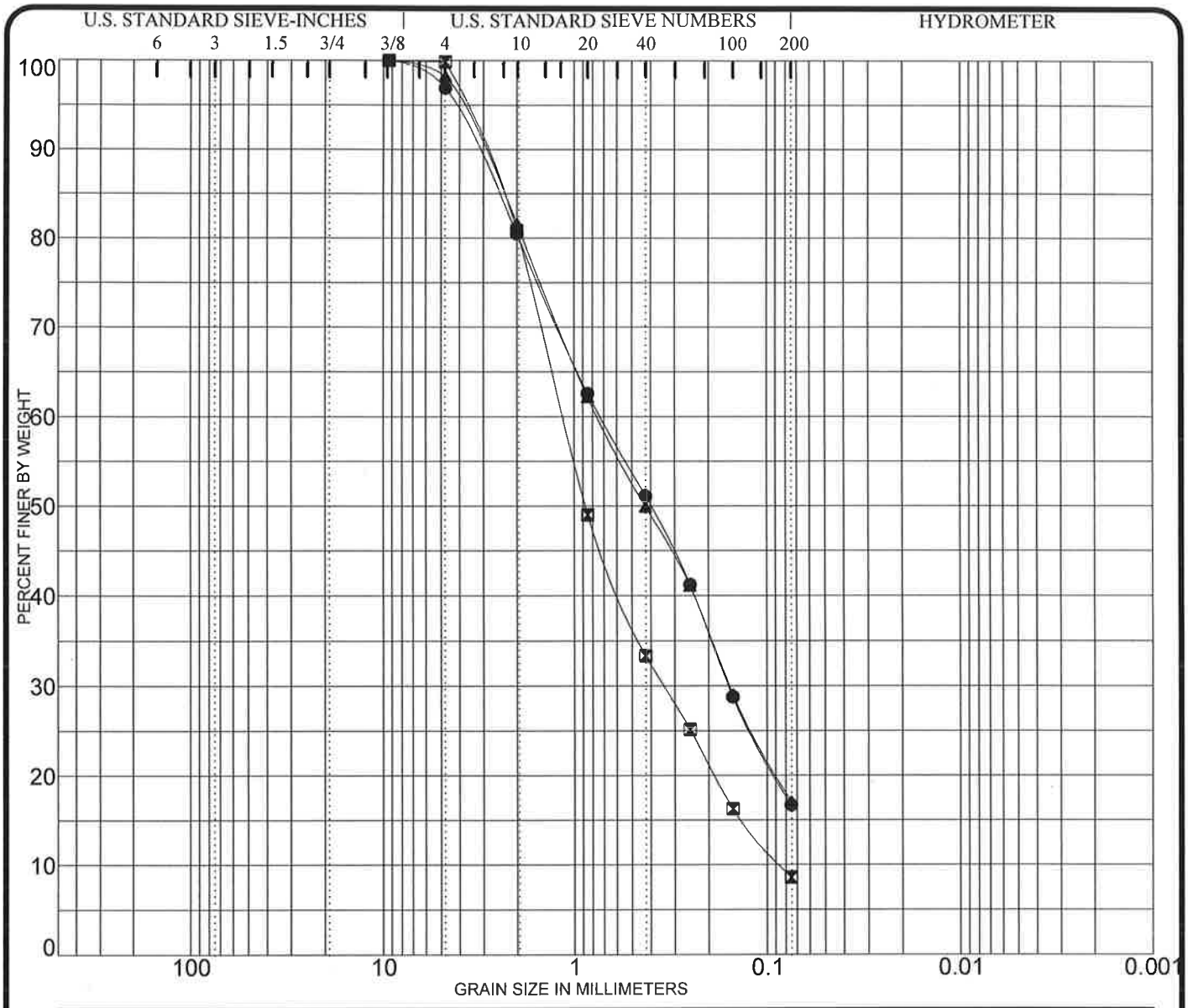
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PROJECT NO. 2833.I

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GRAIN SIZE DISTRIBUTION

FIGURE B-1



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

	Sample Location		Classification	MC%	LL	PL	PI	Cc	Cu
●	B-4	10.0	SILTY SAND (SM)						
⊠	B-7	5.0	SAND with SILT (SW-SM)					1.21	13.4
▲	B-9	7.0	SILTY SAND (SM)						

	Sample Location		D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
●	B-4	10.0	9.35	0.73	0.158		3.1	80.2	16.7	
⊠	B-7	5.0	9.35	1.14	0.343	0.0853	0.1	91.3	8.6	
▲	B-9	7.0	9.35	0.75	0.156		1.8	81.2	17.1	

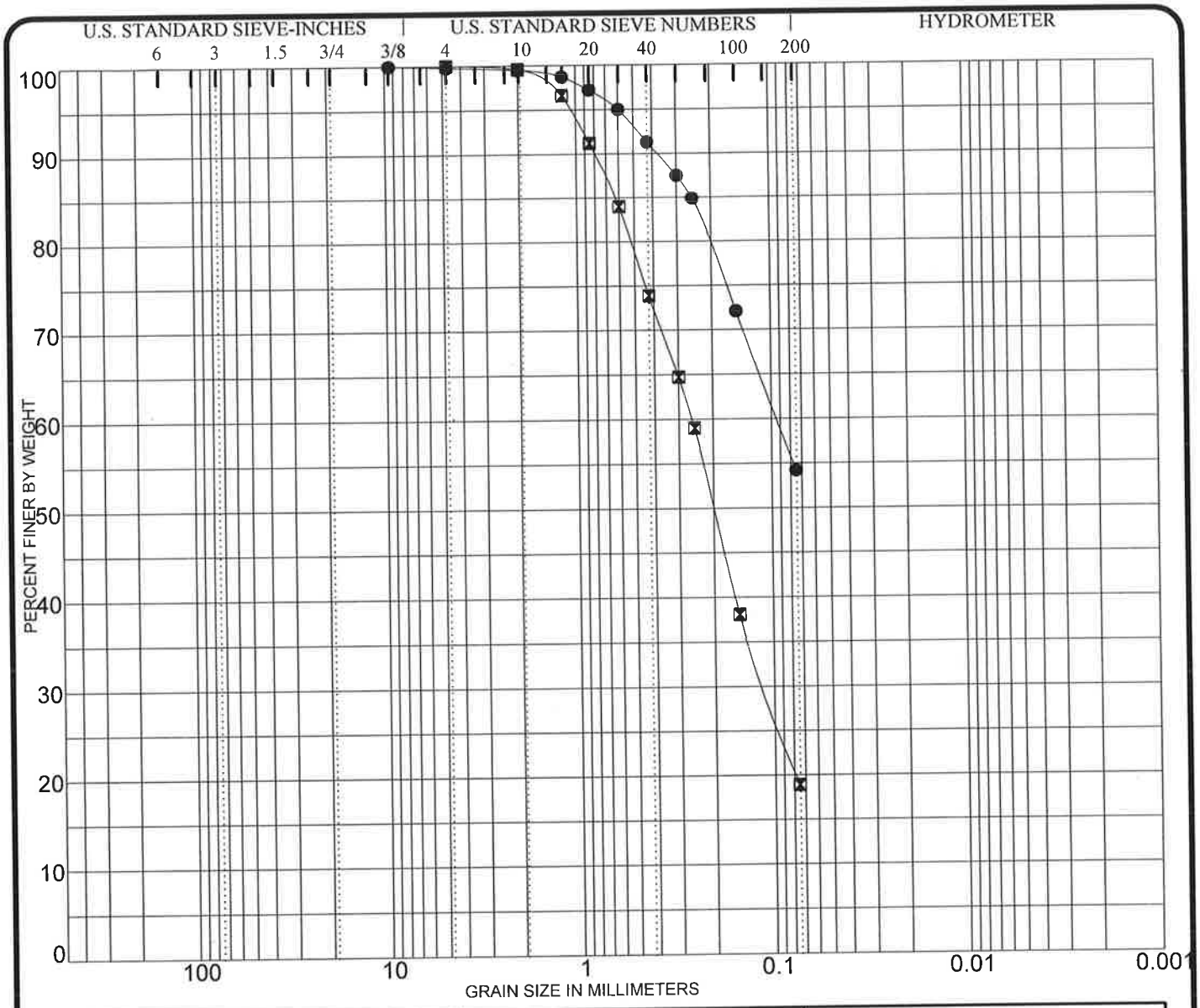
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GRAIN SIZE DISTRIBUTION

FIGURE B-2



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

	Sample Location		Classification	MC%	LL	PL	PI	Cc	Cu
●	B-101	2.0	SANDY SILT (ML)						
⊠	B-101	7.0	SILTY SAND (SM)						

	Sample Location		D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
●	B-101	2.0	9.50	0.09			0.2	45.6	54.2	
⊠	B-101	7.0	4.75	0.26	0.112		0.0	81.1	18.9	

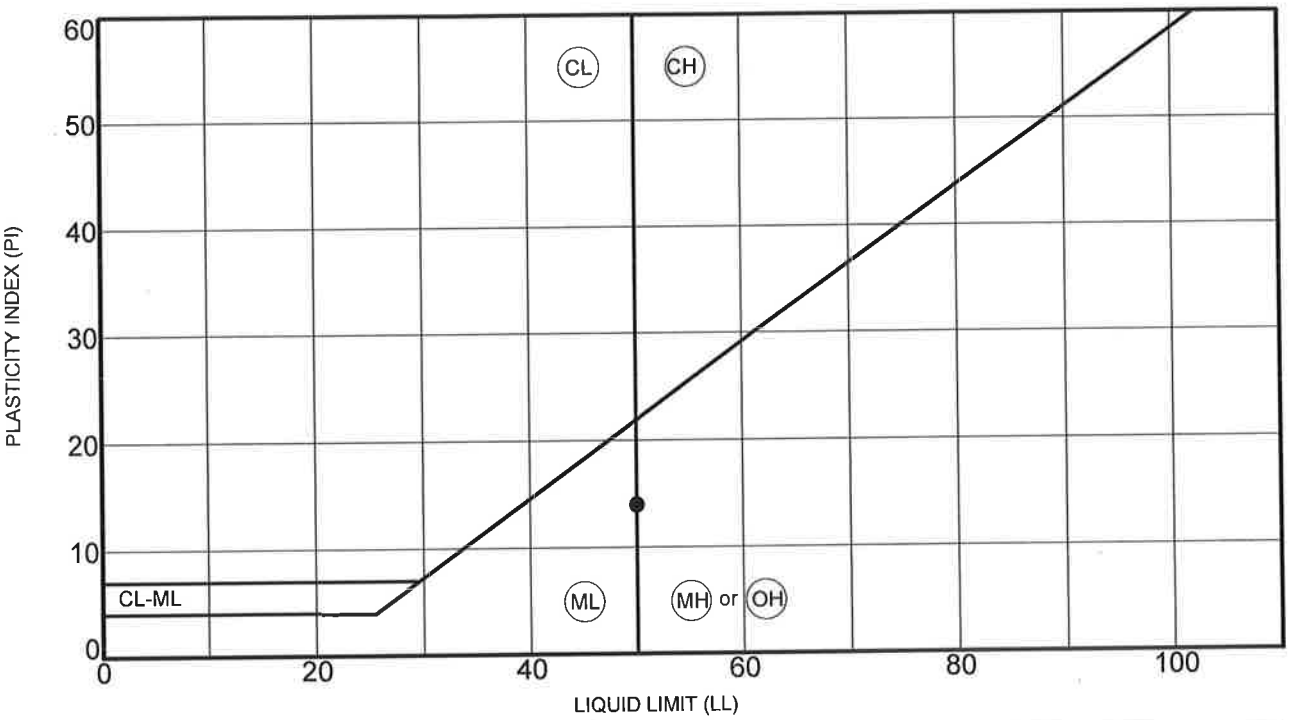
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GPI

GRAIN SIZE DISTRIBUTION

FIGURE B-3



	SAMPLE LOCATION		LL	PL	PI	Fines, %	Classification
●	B-3	15.0	50	36	14		SANDY SILT (ML/MH)

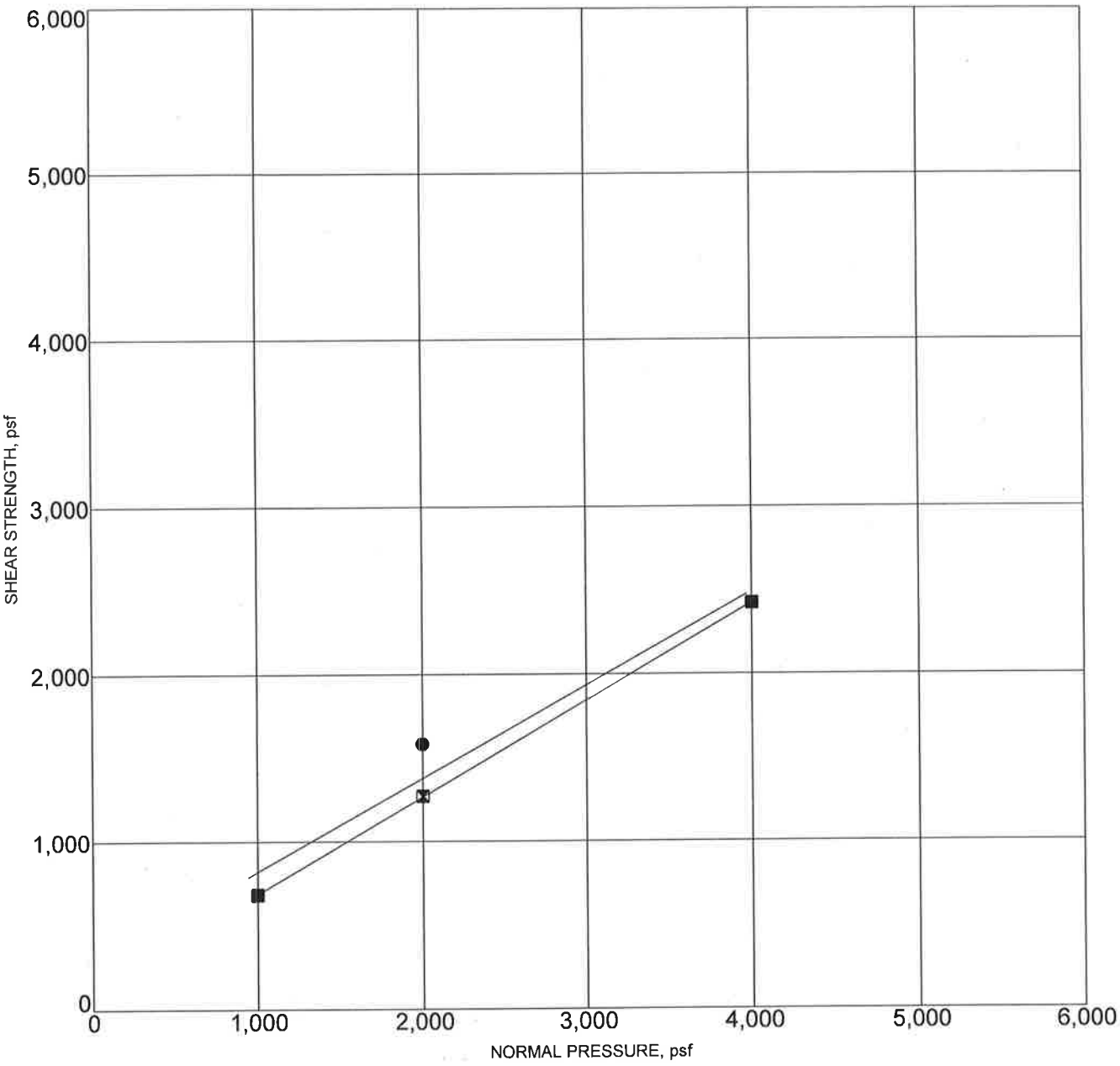
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ATTERBERG LIMITS TEST RESULTS

FIGURE B-4



● **PEAK STRENGTH**
Friction Angle= 29 degrees
Cohesion= 264 psf

⊠ **ULTIMATE STRENGTH**
Friction Angle= 30 degrees
Cohesion= 108 psf

Sample Location		Classification	DD,pcf	MC,%
B-8	5.0	SILTY SAND (SM)	104	2.8

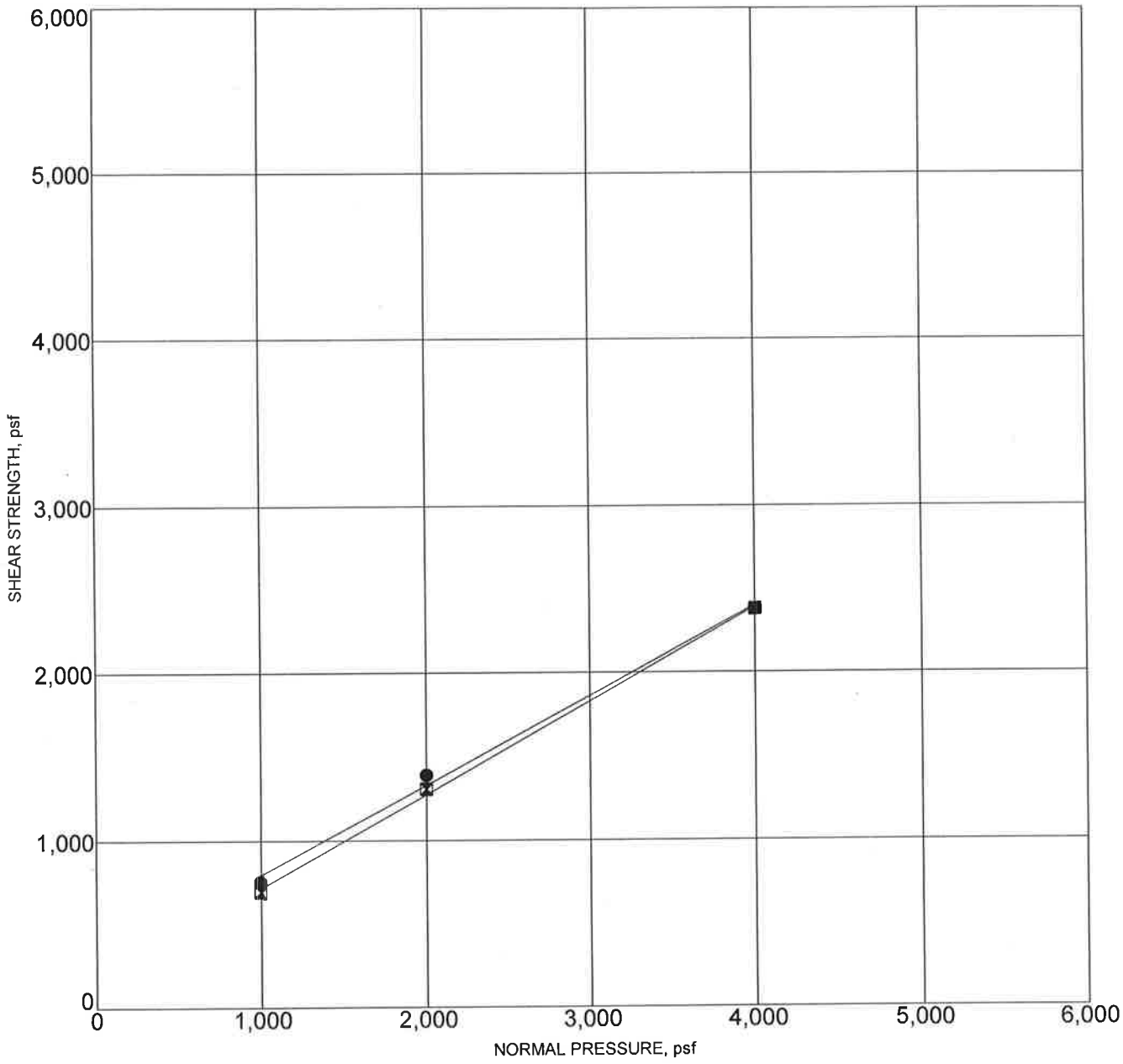
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PROJECT NO.: 2833.I

GPI

DIRECT SHEAR TEST RESULTS

FIGURE B-5



● **PEAK STRENGTH**
Friction Angle= 28 degrees
Cohesion= 264 psf

⊠ **ULTIMATE STRENGTH**
Friction Angle= 29 degrees
Cohesion= 162 psf

Note: Samples remolded to 90% of maximum dry density

Sample Location		Classification	DD,pcf	MC,%
B-14	0-5	SILTY SAND (SM)	120	9.5

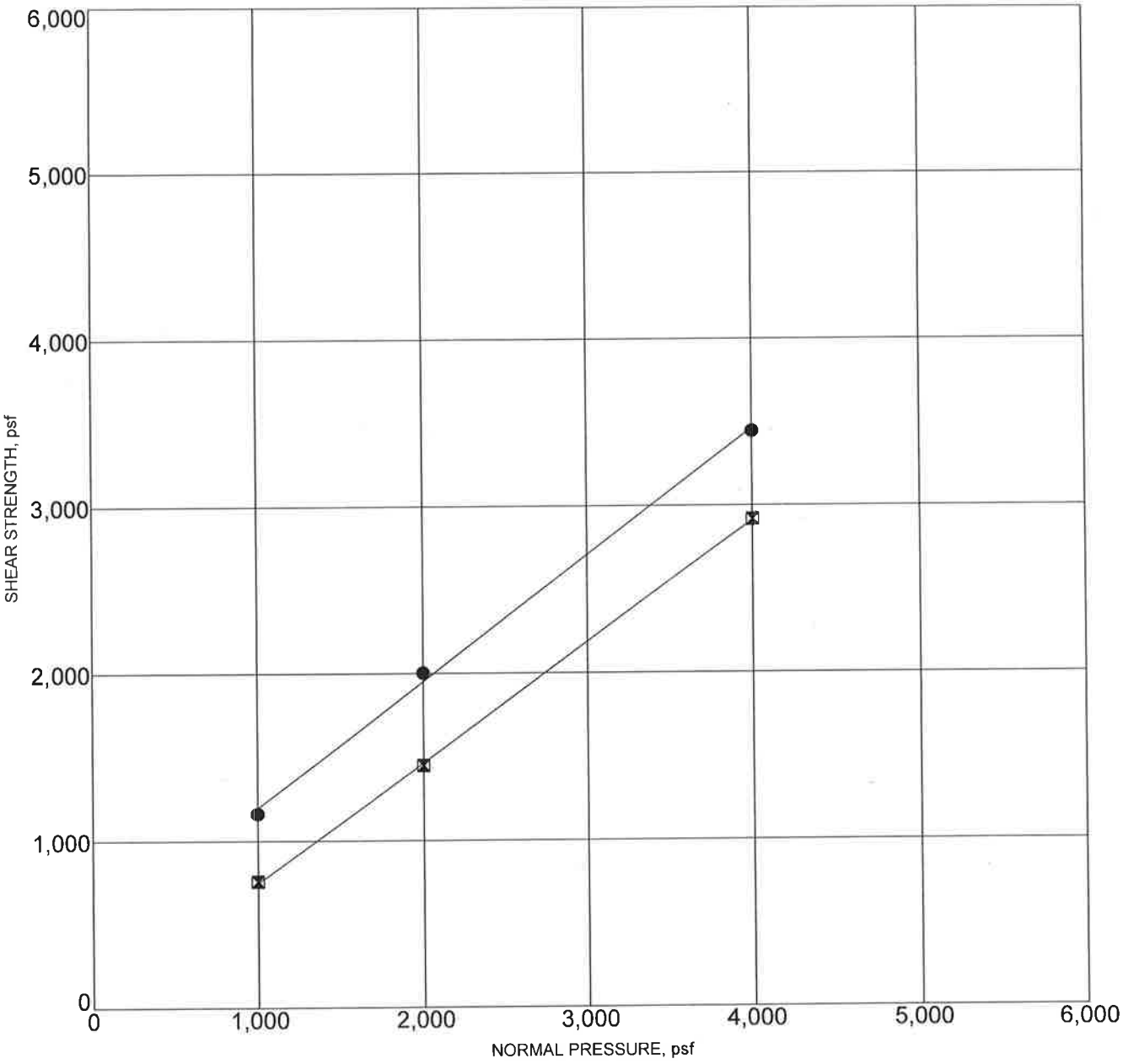
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DIRECT SHEAR TEST RESULTS

FIGURE B-6



● **PEAK STRENGTH**
Friction Angle= 37 degrees
Cohesion= 444 psf

⊠ **ULTIMATE STRENGTH**
Friction Angle= 36 degrees
Cohesion= 24 psf

Sample Location		Classification	DD,pcf	MC,%
B-101	5.0	WEATHERED BEDROCK: SILTY SAND (SM)	121	3.8

PROJECT: VINEYARD/VAL VISTA

PROJECT NO.: 2833.I

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DIRECT SHEAR TEST RESULTS

FIGURE B-7

Appendix F

Phase I ESA

PHASE I ENVIRONMENTAL SITE ASSESSMENT

Val Vista - CK-17

Vacant Land, 8.23 Acres

NEQ Clinton Keith Road and 215 Freeway

Murrieta, California

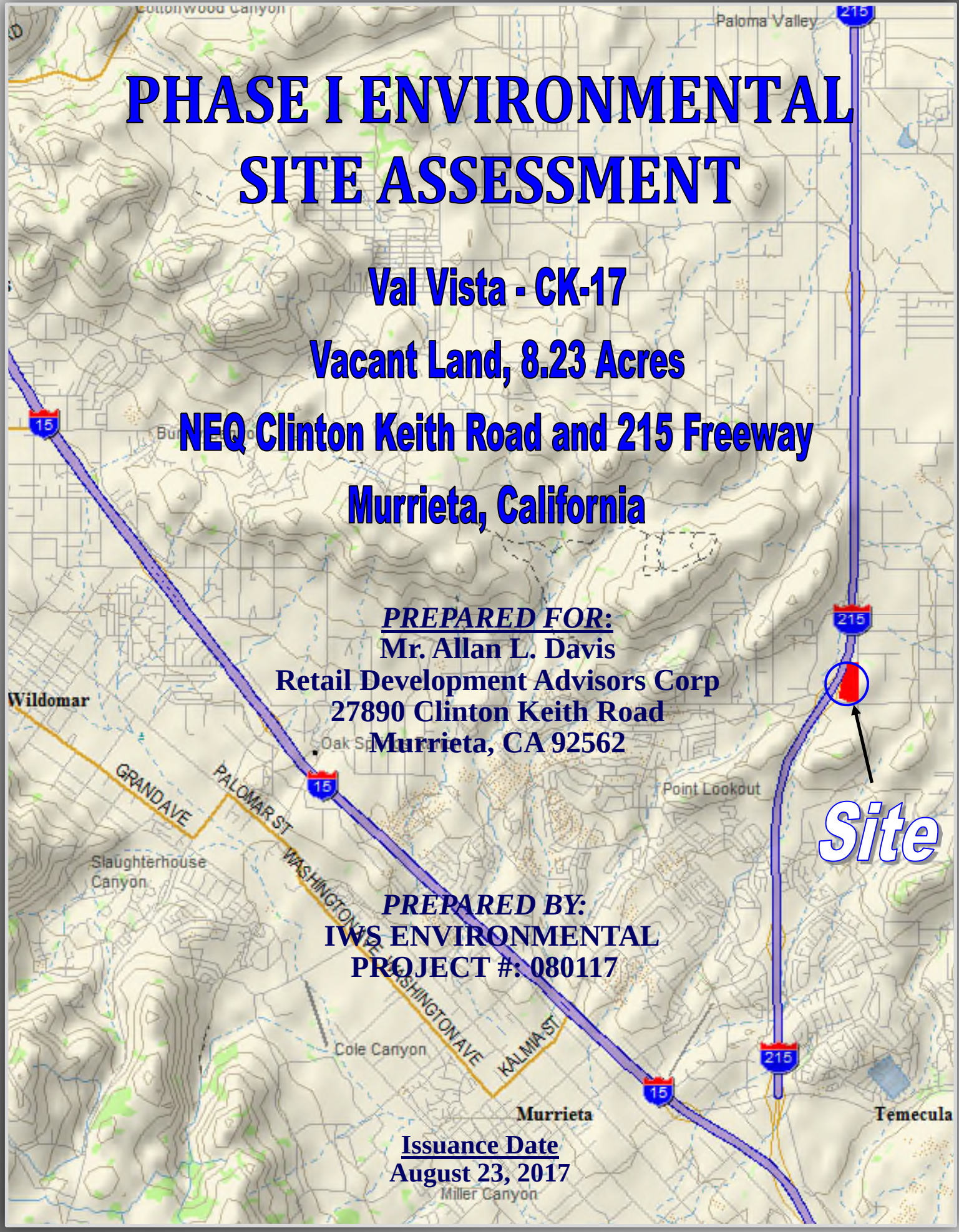
PREPARED FOR:

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Retail Development Advisors Corp
27890 Clinton Keith Road
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PREPARED BY:

IWS ENVIRONMENTAL
PROJECT #: 080117

Issuance Date
August 23, 2017



Phase I Environmental Site Assessment

Val Vista, 8.23 Acres – Vacant Land
NEQ Clinton Keith Road and 215 Freeway
Murrieta, California

23 August 2017
IWS Project No. 080117

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Phase I Environmental Site Assessment

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NEQ Clinton Keith Road and 215 Freeway
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Phase I Environmental Site Assessment
Val Vista, 8.23 Acres – Vacant Land
NEQ Clinton Keith Road and 215 Freeway
Murrieta, California

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Phase I Environmental Site Assessment
Val Vista, 8.23 Acres – Vacant Land
NEQ Clinton Keith Road and 215 Freeway
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Appendix C - Historical Documents – Historical Aerials, Topographic Maps, City Directory, Sanborn Maps
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Phase I Environmental Site Assessment
Val Vista, 8.23 Acres – Vacant Land
NEQ Clinton Keith Road and 215 Freeway
Murrieta, California

EXECUTIVE SUMMARY

IWS Environmental Services Inc. (IWS), conducted this Phase I Environmental Site Assessment for four contiguous parcels comprising 8.23 acres of vacant property located in the directly east of the 215 Freeway and north of Clinton Keith Road in the City of Murrieta California. This Phase I was conducted in conformance with the scope and limitations of ASTM Standard Practice E1527-13, the Environmental Protection Agency Standards and Practices for All Appropriate Inquiries (40 CFR Part 312).

PROPERTY DESCRIPTION AND USE

The property is comprised of 4 contiguous parcels comprising 8.23 acres immediately east of the 215 Freeway and directly north of Clinton Keith Road. There are no buildings or structures on the subject site. (See: Figure 2).

The subject site is situated in the northeastern portion of the City of Murrieta, an area of the city comprised primarily of residential with a mix of scattered retail and commercial businesses. Major vehicle arteries in the area include the I-215 Freeway located directly west. Major lakes in the area include Skinner Lake located 5.75 miles east and Diamond Valley Lake located 8 miles northeast of the subject property.

Based upon historical data collected for this Phase I, for well over a century, possibly more, the subject site has remained vacant undeveloped land void of any development, buildings or structures (exclusive of a cell tower located on the northwest corner of the site). There has never been a recorded spill or release of hazardous substance on the subject site or any adjoining properties.

FINDINGS

Based on the standards set by ASTM Standard Practice E1527-13, a recognized environmental condition (REC) is the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. Conditions that are determined to be *de minimis*, which do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies, are not recognized environmental conditions.

The standard further identifies historical RECs and controlled RECs. An historical REC (HREC) is a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls. A controlled REC (CREC) is a REC resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority, with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls.

The following findings are differentiated below as *de minimis* conditions unlikely to be subject to government enforcement, HRECs, CRECs and RECs.

DE MINIMIS CONDITIONS

This assessment revealed no evidence of potential or *de minimis* conditions in connection with the subject property.

HISTORICAL RECOGNIZED ENVIRONMENTAL CONDITIONS

This assessment has revealed no evidence of HRECs in connection with the subject property.

CONTROLLED ENVIRONMENTAL CONDITIONS

This assessment has revealed no evidence of CRECs in connection with the subject property.

RECOGNIZED ENVIRONMENTAL CONDITIONS

This assessment has revealed no evidence of RECs in connection with the subject property

CONCLUSIONS, OPINIONS AND RECOMMENDATIONS

IWS Environmental Inc. has performed a *Phase I Environmental Site Assessment* in conformance with the scope and limitations of ASTM Practice E1527-13, US-EPA AAI for 8.23 acres of vacant land located in the directly east of the 215 Freeway and north of Clinton Keith Road in the City of Murrieta, California. This assessment has revealed no evidence of any RECs in connection with the subject property. No additional assessments are recommended at this time.

Phase I Environmental Site Assessment
Val Vista, 8.23 Acres – Vacant Land
NEQ Clinton Keith Road and 215 Freeway
Murrieta, California

1.0. INTRODUCTION

IWS Environmental Inc. (IWS) was directed by Mr. Allan Davis of Retail Development Advisor, Corp to perform a Phase I Environmental Site Assessment (Phase I) on 4 parcels comprising approximately 8.23 acres of vacant, undeveloped land. The Phase I was performed in conformance with the scope and limitations of ASTM Standard Practice E1527-13 and the United States Environmental Protection Agency (USEPA) Standards and Practices for 'All Appropriate Inquiries (AAI)' (40 CFR Part 312). The Phase I is designed to provide the Client (user) with an assessment concerning environmental conditions (limited to those issues identified in the report) as they exist at the subject property.

1.1. PURPOSE

The purpose of the Phase I is to identify and assess environmental characteristics of the subject property that could lead to liability in the event of ownership, that could have a potential impact on property value or that could impact the present or future use of the subject property.

The purpose of ASTM Standard Practice E1527-13 and USEPA AAI is to define good commercial and customary practice for conducting an environmental site assessment of a parcel of commercial real estate with respect to the range of contaminants within the scope of the *Comprehensive Environmental Response Compensation and Liability Act* (CERCLA) and petroleum products. As such, this practice is intended to permit a user to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations on CERCLA liability: that is, the practice that constitutes all appropriate inquiries into the previous ownership and uses of the property consistent with good commercial and customary practice as defined at 42 U.S.C. §9601(35) (B). An evaluation of business environmental risk associated with a parcel of commercial real estate may necessitate investigation beyond that identified in this practice (based on ASTM Practice E1527-13).

The goal of ASTM Standard Practice E1527-13 is to identify *recognized environmental conditions* (RECs) in connection with the subject property. A REC is defined as the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. Conditions that are determined to be *de minimis*, which do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies, are not recognized environmental conditions.

The standard further identifies historical RECs and controlled RECs. An historical REC (HREC) is a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls. A controlled REC (CREC) is a REC resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority, with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls.

1.2. SITE DESCRIPTION

The subject property is located directly east of the 215 Freeway and north of Clinton Keith Road in the city of Murrieta, California for well over a century, possibly more. The subject site is located within an area of the city comprised of residential and retail use. Further property location descriptions, characteristics, improvements, and site vicinity characteristics are discussed below.

This Phase I was conducted in conformance with the scope and limitations of ASTM Standard Practice E1527-13, the Environmental Protection Agency Standards and Practices for All Appropriate Inquiries (40 CFR Part 312).

1.2.1. Location and Legal Description

The subject property location can be identified as the following:

Site Addresses	No addresses attached to parcels
Assessor's Parcel Number (APN)	392-2700-30, 31, 32, 33
Property Owner	Val Vista Estates, Inc
Land Use Type	Vacant
Legal Description	See Attached PTR for Legal Descriptions of Parcels
Size of Property	8.23 Acres (includes total parcels)

1.2.2. Site and Vicinity General Characteristics

The subject site is located within an area of the city comprised of residential and retail use in the City of Murrieta, California. Figure 1 shows the setting of the subject property (7.5 Minute United

States Geological Survey [USGS] Topographic Series, Murrieta Quadrangle, California). Photographs of the subject property are provided in Appendix A.

1.2.3. Current Use of Property

The subject property is currently vacant, undeveloped land.

1.3. DETAILED SCOPE-OF-SERVICES

Except where identified in Section 7.1., the scope of work for this Phase I conforms to ASTM Standard Practice E1527-13 and the USEPA AAI (40 CFR Part 312). Any additional User requested scope of services is discussed in Section 6.0.

1.4. SIGNIFICANT ASSUMPTIONS

Our professional services were performed using that degree of care and skill ordinarily exercised by environmental consultants practicing in this or similar fields. Findings were based mainly upon examination of historical records, maps, aerial photographs and government agency lists, on a site reconnaissance visit, and on information obtained during personal interviews with persons of long term familiarity with the subject property as specified in ASTM E1527-13 and the USEPA AAI. Hazardous waste site lists presented in this report represents only a search of specific government records as listed below. IWS is aware additional government records may exist. It should be noted that government agencies often do not list all sites with environmental contamination or that the list could be inaccurate and/or incomplete.

Groundwater flow and depth to groundwater, unless otherwise specified by on-site well data, or well data from adjacent sites, are assumed based on geologic interpretations from available sources. IWS assumes the property has been correctly and accurately identified by the client, designated representative of the client, property contact, property owner, and property owner's representatives.

1.5. LIMITATIONS AND EXCEPTIONS

Property conditions, as well as local, state, tribal and federal regulations can change significantly over time. Therefore, the recommendations and conclusions presented as a result of this study apply strictly to the environmental regulations and property conditions existing at the time the study was performed. Available information has been analyzed using currently accepted assessment techniques and it is believed that the inferences made are reasonably representative of the property. IWS makes no warranty, expressed or implied, except that the services have been performed in accordance with generally accepted environmental property assessment practices applicable at the time and location of the study.

Considerations identified as beyond the scope of an ASTM Phase I that may affect business environmental risks at a property include the following: asbestos-containing materials (ACMs); biological agents; cultural and historic resources; ecological resources; endangered species; health and safety; indoor air quality unrelated to releases of hazardous substances or petroleum products into the environment; industrial hygiene; lead-based paint (LBP); lead in drinking water; mold; radon; regulatory compliance; and wetlands. These environmental issues may warrant assessment based on the type of property or transaction; however, they are considered non-scope issues under ASTM Practice E1527-13. Any addition of non-scope items must be agreed upon between the user and IWS prior to initiation of the Phase I.

The Phase I Environmental Site Assessment is not, and should not be construed as, a warranty or guarantee about the presence or absence of environmental contaminants that may affect the property. Neither is the assessment intended to assure clear title to the property in question. The sole purpose of investigation into property title records is to ascertain a historical basis of prior land use. All findings, conclusions, and recommendations stated in this report are based upon facts, circumstances, and industry-accepted procedures for such services as they existed at the time this report was prepared (i.e., federal, state, and local laws, rules, regulations, market conditions, economic conditions, political climate, and other applicable matters). All findings, conclusions, and recommendations stated in this report are based on the data and information provided, and observations and conditions that existed on the date and time of the property visit.

1.6. SPECIAL TERMS AND CONDITIONS

There were no special terms or conditions, agreed upon by the environmental professional, beyond the initial agreed upon scope of work, used in preparation of this report.

1.7. USER RELIANCE

Conclusions and recommendations in this report are based on findings regarding historical use of the site, and on features noted during the site reconnaissance. The absence of any potential gross contamination sources, historic or present, does not necessarily imply that the site is free of any contamination. This report only represents a ‘due diligence’ effort as to the current environmental status of the site. No other warranty, expressed or implied, is made as to the professional recommendations contained in this report.

2.0. USER PROVIDED INFORMATION

According to the ASTM Standard E1527-13 and the USEPA AAI, in order to qualify for one of the Landowner Liability Protections (LLPs) to CERCLA liability offered by the *Small Business Liability Relief and Brownfields Revitalization Act of 2001*, the client (user) must provide to the environmental professional the following information (if available) in relation to the subject property:

Title Records	A review of Title Records was not requested by the user.
Environmental Liens or Activity and Use Limitations	A Preliminary Title Report (PTR) dated June 8, 2017 was provided to IWS. No environmental liens or land use restrictions were found on the PTR. The PTR is provided in Appendix F.
Specialized Knowledge	IWS was not provided any specialized knowledge by the user and does have not any specialized knowledge of this property outside of what is contained in this report. The property ownership and tenants as well as all individuals who were interviewed as part of this investigation, have not reported any specialized knowledge of this property outside of what is contained in this report.
Commonly Known or Reasonably Ascertainable Information	The user provided no commonly known or reasonably ascertainable information available within the local community about the subject property that is material to recognized environmental conditions in connection with the property.
Valuation Reduction for Environmental Issues	No property valuation reduction related to environmental issues or concerns was reported by the user.
Owner, Property Manager, and Occupant Information	No written or verbal communication with the property owner, manager and/or occupant revealed any information which suggested that there are currently or historically any recognized environmental conditions associated with the subject property not noted in this assessment.
Reason for Performing Phase I	Property sale.
Other	No modifications to the ASTM E1527-13 standard scope-of-services were requested by the user for special circumstances that might be encountered at the subject property. Any additional user requested scope of services is discussed in Section 6.0.

Failure to provide the above information could result in a determination that 'all appropriate inquiries' are not complete. Additional items should be collected, if available, and provided to IWS.

3.0. RECORDS REVIEW

The purpose of obtaining and reviewing subject property and site vicinity historical, physical setting, and regulatory records is to help identify *recognized environmental conditions* in connection with the subject property.

3.1. HISTORICAL USE INFORMATION

The objective of consulting historical sources for a Phase I is to develop a history of previous uses of the property and surrounding area to help identify the likelihood of past uses having led to recognized environmental conditions with respect to the property. All obvious uses shall be identified from the present to the property's first obvious developed use, or back to 1940, whichever is earlier. Review of standard sources at less than five year intervals is not required.

3.1.1. Historical Use Information on Subject Property

Subject property history was researched by reviewing historical Sanborn Fire Insurance Maps, aerial photographs, topographic maps, telephone directory information, Los Angeles County Assessor's Office records, and the City of Santa Fe Springs Building and Planning Division records.

Based on a review of historical documents, the subject property has remained vacant undeveloped land absent of any agricultural use and absent of any former buildings or structures. Antelope Road which extends through the property was constructed in the mid 1970's. The surrounding area were utilized for agricultural purposes from the 1920's (possibly sooner) and slowing ceasing in the 1960's to the mid 2000's. The type of crops grown on adjacent parcels was primarily oats. Chemicals associated with agricultural activities may have been used on adjacent properties, however, based upon the length of time agricultural activities have taken place on adjacent property, and a lack of a migration path, it is highly unlikely detectable levels of residual agricultural chemicals would be present on the subject site.

3.1.1.1. Sanborn Fire Insurance Maps

Sanborn Fire Insurance maps were developed in the late 1800s and early 1900s for use as an assessment tool for fire insurance rates in urbanized areas but are now utilized as a valuable source of historical and environmental risk information. Environmental Data Resources (EDR) owns the largest collection of Sanborn Fire Insurance Maps. IWS requested EDR to provide any Sanborn Fire Insurance Maps that might cover the subject property. Sanborn Fire Insurance Map coverage is not available for the subject property.

3.1.1.2. Aerial Photographs

IWS reviewed aerial photographs of the subject property and surrounding area that were provided by EDR for the years 1927, 1938, 1947, 1952, 1963, 1972, 1977, 1987, 1990, 1994, 2005, 2009, 2010, and 2012 The following is a summary of our review of the aerial photographs:

Year(s)	Aerial Photo Summary
1938	The subject property was located in a rural area of Riverside County. The subject site was vacant, undeveloped land in this photograph absent of any use. Portions of the properties located east of the subject site appeared to be utilized for dry oat farming. A 2-land dirt road extended along the western portion of the site in what would currently be the path of the I-215 Freeway.
1949	No significant changes were noted on the subject site as compared to the 1938 photograph reviewed. Scattered portions of land located to the south and west that were vacant in the 1938 photograph reviewed were utilized for dry oat farming in this photograph.
1961, 1967	No significant changes were noted on the site and adjacent properties as compared to the 1949 photograph reviewed.
1978	Antelope Road was being graded through the eastern portion of the site, connecting to Clinton Keith Road from the north. The remaining portion of the subject site was vacant. A northbound on-ramp was present from Clinton Keith Road connecting to the I-215. Dry oat farming was still present on properties to the east.
1985, 1989	Antelope Road was present extending through the subject property as a completed 2-lane street. Scattered homes were present ½ mile north of the site. Dry oat farming was present directly east and south of the subject site.
1996	A graded area was present just north of the northern portion of the site adjacent to the north bound I-215 on-ramp. Unidentifiable equipment was present in that area. The subject site remained unchanged from the previous photograph reviewed. Dry oat farming, which was performed on properties to the east and south, was no longer present in this photograph.
2002	No changes to the subject site and adjacent properties from the previous photograph reviewed.
2005, 2006	No changes to the subject site from the previous photograph reviewed. Development of a residential community was present 1,300 feet east of the site. Directly adjacent to the east, portions of the land were being graded. Murrieta High School was present directly southeast. Orchard shopping center was under construction to the west.
2009, 2010, 2012	No changes to the subject site from the previous photograph reviewed. No significant environmental concerns were noted in any of the photograph reviewed.

A review of historical aerial photographs did not reveal any items of environmental concerns in connection with the subject property. It should be noted the red border of the subject site depicted on the later aerial photographs is an approximation of the property boundary and may not represent the actual site boundary. Copies of the historical aerial photographs can be found in Appendix B of this report.

3.1.1.3. Historical Topographic Maps

IWS reviewed historical topographic maps of the subject property and surrounding area that were supplied by EDR for the years 1901, 1942, 1943, 1947, 1953, 1973, 1979, and 2012. The following is a summary of our review of the topographic maps:

Year(s)	Historical Topographic Map Summary
1901	The subject property and surrounding area was depicted as being an undeveloped area void of any buildings or structures. Scattered dirt roads were depicted in the area. One of the roads was depicted directly west of the site (currently I-215) The only buildings visible were located approximately 4 miles southwest in an area identified as "Murrieta".
1942, 1943, 1947	Two farm houses were depicted directly west between the subject site and I-215 which is shown on the map as Antelope Road. The immediate area was depicted as rural, undeveloped land.
1953, 1973, 1979	The subject property and surrounding area was depicted as being an undeveloped area. The two farm houses shown in the 1947 map were not depicted on this map. I-215 was visible as a paved highway.
2012	The subject property and surrounding areas were depicted as being fully developed and indicative of current conditions.

A review of historical topographic maps did not reveal any items of environmental concern in connection with the subject property.

3.1.1.4. Street Directories

IWS requested that EDR provide a review of city and street directories to determine the occupancy history of the property. There were no findings for the subject property. The city directory search for adjacent properties did not find any that would represent and environmental concern to the subject site.

A copy of the city directory can be found in Appendix B of this report.

3.1.1.5. Murrieta Building and Planning Department

The Murrieta Building and Planning Department was contacted to review records pertaining to the site, including any building applications, permits, and any notices of code violations. The city has no records for any building permits for the subject parcels.

3.1.1.6 Riverside County Building and Planning Department

Prior to the City of Murrieta being incorporated, the County of Riverside, Building and Planning Department (CRBPD) oversaw all building permits in Murrieta. An email request was submitted to the CRBPD for any records they may have in their files for the subject parcels. On August 4, 2017, Kim from the Records and Information Management division responded to our request via email and indicated they have no records for the subject site in their files.

3.1.1.7. Assessor Records

IWS reviewed tax assessor records to determine the ownership of the property. Parcel numbers 392-270-030, 31, 32, and 33 indicates title to the properties Curci Turner Company Val Vista Estates Inc. dated January 11, 2006 for the subject parcels.

3.1.2. Historical Use Information on Adjoining Properties

Historical uses of immediately adjoining properties are summarized below.

North	Agricultural use to the early 1980's, vacant undeveloped land. An inspection of the area north of the subject site did not reveal any environmental concerns.
South	Agricultural use to the early 1990's, then vacant until 2015 when developed for residential use. An inspection of the area south of the subject site did not reveal any environmental concerns.
West	Agricultural use to the early 1960's, then vacant until 2006 when commercial development took place. An inspection of the area west of the subject site did not reveal any environmental concerns.
East	A combination of agricultural and vacant land use to 2009 when the site started to be utilized for mining of soils which currently is taking place on the site. An inspection of the area east of the subject site did not reveal any environmental concerns.

Historical uses of adjoining properties for over 50 years have been primarily utilized for industrial and commercial use. These industrial uses, especially prior environmental regulations taking

place in the late 1970's and early 1980's, may contribute to both soil and ground water contamination of adjoining properties. Several of which have been documented.

3.2. PHYSICAL SETTING SOURCES

Geology	Physiographically, the subject site is approximately 1530 feet above mean sea level {United States Geologic Survey [USGS], 1975). The dominant structural feature is the San Andreas Fault zone, which trends in a southeast-northwest direction at the base of the San Bernardino Mountains; motion along this fault has caused the uplift of the San Bernardino and San Gabriel mountain ranges. Additional major fault structures include the San Jacinto fault zone and the Elsinore Fault Zone. The San Jacinto Mountains are caused by motion from both the San Andreas and San Jacinto zones. The area between the San Jacinto zone and the Elsinore Zones is a down-dropped block, which is partly in-filled with sediments from the surrounding mountains. In addition, the southern end of the Wildomar Fault has been identified approximately one mile north of the project site. The predominant features are intrusive rocks of the southern California batholith (granitic and andesitic rocks) which have been uplifted/eroded to form the mountain ranges, alluvial/fluvial sediments, and semi-consolidated sedimentary units. Soil surface textures in the area of the project site is fine and very fine sandy loam, unweathered bedrock, and sandy loam. Shallow soils are more gravelly, intermixed with clays and fine sandy loam. Deeper soils are gravelly-sandy loam.
Hydrology	The regional flow of groundwater is to the west, toward the Pacific Ocean. Locally, water flow from the project site is to the west southwest, towards Lake Elsinore. The area has been assigned to the Class D Hydrologic group, as there is very slow water infiltration rate due to clayey soils, the high water table is between 30 inches and 18 feet below ground, and there is a shallow depth of an impervious layer, where the depth to bedrock is between 4 and 26 inches: The soil does not meet the requirements of a hydric soil. Soil drainage is somewhat excessive, as the soils have a high hydraulic conductivity and a low water-holding capacity. Soil pH ranges between 6.1 and 7.3. The direction of free-flowing ground water in the area of the site is inferred to be in a south, southeast direction. Information collected for this report indicates there are no known polluted ground water plumes under or near the subject property.
Topography	The property is located at an elevation of approximately 1,550 feet above mean sea level (MSL), in an area of low topographic relief. Regional slope of the area is toward the south-southwest.

Surface Soils	EDR provides a report listing dominant soil composition in the general area of the subject property based on information from the United States Department of Agriculture's Soil Conservation Service STATSGO (State Soil Geographic Database) soil maps. Soil surface texture is listed as Myford sandy loam. Myford series consists of deep, moderately well drained, very slowly to moderately slowly permeable soils that formed in alluvium derived from mixed sources. Slope range from 0.05 to 0.06 percent.
Surface Water Features	There are no surface water features on the subject property. The nearest surface water features in the vicinity of the subject property is Lake Skinner located 6 miles east.
Flood Zone	The EDR database report shows that the subject property is not located within either a 100-year or 500-year Flood Zone. This data, available in select counties across the country, was obtained by EDR from the Federal Emergency Management Agency (FEMA) which has maps depicting FEMA-defined 100-year and 500-year flood zones.
Wetlands	The EDR database report shows that the subject property is not located within the National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR from the U.S. Fish and Wildlife Service.

3.3. STANDARD ENVIRONMENTAL RECORD SOURCES

A computer search of federal, state and regional regulatory agency databases was performed by Environmental Data Resources Inc. (EDR), a data retrieval company, to identify and locate properties in areas of concern that have been reported as sites known or suspected to contain underground storage tanks, or to have been the scene of hazardous materials spills. Additionally, sites permitted to manufacture, utilize, generate, store, treat or dispose of hazardous materials and/or hazardous wastes are identified and located. A list and description of databases investigated, in compliance with ASTM E1527-13 and USEPA AAI, is included in EDR Report provided in Appendix C.

3.3.1. Subject Property Database Search

Subject property is not listed on the EDR Report.

3.3.2. Site Vicinity Database Search

Sites with recognized environmental conditions surrounding the subject property are typically of concern to the subject property when they are located in an up-gradient direction from the

property with respect to the ground water flow direction. Typically, groundwater would represent the migration medium for contaminants over significant distances. Sites located in equi-gradient or down-gradient directions from the subject property are less likely to impact the subject property.

Sites with permits to operate USTs, handle/store/transfer hazardous materials and generate hazardous waste are listed on the informational database reports; however, it does not necessarily imply that these sites have impacted the environment. Sites with permits within a ¼-mile search distance from the subject property are noted with emphasis on the immediately adjacent permitted sites.

3.3.2.1. High Risk Occurrences

Based on the EDR Report, IWS identified the following listings considered to be 'high risk.' High risk listings are sites with known contamination.

The following 'high risk' databases contained sites within the search radii:

DATABASE	< 1/8 mi	1/8 - 1/4 mi	1/4 - 1/2 mi	1/2 - 1 mi	Total
NPL	0	0	0	0	0
Proposed NPL	0	0	0	0	0
Delisted NPL	0	0	0	0	0
CERCLIS	0	0	0	--	0
RESPONSE	0	0	0	0	0
ENVIROSTOR	0	0	0	1	**1**
LUST	0	0	0	--	0
SLIC	0	0	0	--	0
VCP	0	0	0	--	0
BROWNFIELDS	0	0	0	--	0

The following sites were identified within the search radii on databases of ''

Site	Distance & Direction [1]	Database(s) & Summary	Environmental Concern [2]
Baxter Road Elementary School No. 10 Baxter Rd. and Meadowlark Land	½ -mile NNE.	Listed as an ENVIROSTOR SCH. Listings come from assessment for school construction.	No indication – Based on regulatory closure status and distance from subject site.

Notes:
1: distance and direction from subject property N: north NE: northeast

2: environmental concern based on the EDR report SP: subject property	S: south E: east W: west	SE: southeast NW: northwest SW: southwest

IWS carefully reviewed each of the listed EDR sites to determine if current or past business activities conducted at those sites is likely to have the potential to negatively impact the subject site. Additionally, each site identified as having impacted the soil or groundwater was evaluated to determine the media affected, and if there is a likely migration medium path present that could transfer the contaminates onto the subject site.

The EDR report indicated no sites within the search radius have had a release of hazardous materials or have received regulatory closure.

It should be noted that government agency records pertaining to sites may remain on file for years, and may not be representative of the current environmental status of the site. In addition, listings of the addresses and current occupants of a site provided by the regulatory agencies may not be accurate.

Information provided on the GeoTracker web site (http://geotracker.waterboards.ca.gov/) was utilized to validate information provided in the EDR report reviewed in the above section.

3.3.2.2. Close Proximity Listings

Based on the EDR Report of listed occurrences, IWS did not identify any sites of potential environmental concern immediately adjacent, up-gradient or in close proximity to the subject property not listed on 'high risk occurrence' databases above.

3.3.2.3. Orphan Site Listings

The orphan summary list consists of sites lacking sufficient information for EDR to map their locations. No sites were listed as 'orphan' in the EDR Report.

3.4. ADDITIONAL ENVIRONMENTAL AGENCY RECORD SOURCES

In addition to the EDR computer search of federal, state and regional regulatory agency databases, IWS contacted appropriate regulatory agencies to review records regarding the property and surrounding sites identified as having recognized environmental conditions that have the potential to impact the subject property based on ground water flow direction, distance from the subject property and nature of the releases causing the environmental condition.

3.4.1 Regional Water Quality Control Board

The Santa Ana Region of the Regional Water Quality Control Board (SA-RWQCB) is the enforcing agency for the oversight of assessments and remediation of unauthorized releases of hazardous substances in the soil and ground water. The Regional Board also maintains and online computer database, GeoTracker, that provides listings of closed and active sites related to unauthorized releases of hydrocarbons as well as solvents, metals, and other materials. For listed sites, online reports are commonly available. IWS reviewed the GeoTracker database for information that may be available for the subject property or surrounding sites. Additionally, an email request for records for the subject site was sent to the SA-RWQCB. There were no records available at the GeoTracker for the subject site.

3.4.2 Department of Toxic Substance Controls

The Department of Toxic Substances Control (DTSC) is the State of California agency responsible for oversight of contaminated sites that are not regulated by the RWQCB. A request for information from the Cypress office of the DTSC was made for the subject property on August 1, 2017. At of the date of this report IWS has not received a response form the DTSC for inclusions in this report. Based on other data gathered for this report, IWS believes it is unlikely the DTSC will have any records for the subject site.

The DTSC also maintains records for facilities that generate hazardous materials in the Hazardous Waste Tracking System (HWTS) which is available at an on-line database. http://hwts.dtsc.ca.gov/report_list.cfm No records were found for the subject site on site.

3.4.3 Murrieta Fire Department

IWS contacted the Murrieta Fire Department and spoke to Kay Riscol. Ms Riscol indicated her agency does not keep any records for any spills or illegal dumping of hazardous materials on city properties. Those records would be with the Riverside County, Department of Environmental Health.

3.4.4. County of Riverside Department of Environmental Health – Hazardous Materials Div.

The County of Riverside - Department of Environmental Health (CR-DEH), is the lead agency for enforcing environmental laws involving hazardous materials, hazardous waste, and underground storage tanks for the City of Murrieta. On August 3, 2017 IWS sent a written request to the CR-DEH Records Management division any records for the subject site. Since the agency does not maintain records for parcel numbers, IWS provided the physical address of 36755 Antelope Road, which is the address of the cell tower.

As of the drafting of this report the CR-DEH has not responded to our request. IWS believes it is highly unlikely the agency will have any records for that address. In the event pertinent records are found at their agency that would change the conclusions and opinions expressed in this report, IWS will submit an addendum to this report stating any such changes.

3.4.5. South Coast Air Quality Management District (AQMD)

The South Coast Air Quality Management District (AQMD) is the enforcing agency for oversight of air emissions for the City of Murrieta in which the subject site is located. The AQMD has an online database tool available to the public to search for records called Facility Information Detail (FIND). http://www3.aqmd.gov/webappl/fim/prog/search.aspx. No records were found for the subject site on AQMD FIND database site.

3.4.6. Oil and Gas Exploration

On August 2, 2017, the Munger Map Book of California Oil and Gas Fields (1994) was reviewed concerning the subject property and nearby properties. The Department of Oil and Gas (DOG), maps contain information regarding oil and gas development. According to the DOG maps, there are no current, or former oil wells located on the subject site.

3.4.7.1. Additional Site Vicinity Record Sources

The property address was not listed on the ENVIROFACTs database as a RCRA small or large quantity generator of hazardous materials.

3.5. PROVIDED SUBJECT PROPERTY RECORDS

No previous environmental reports for the subject site were provided to IWS for review.

3.6. VOLATILE ORGANIC COMPOUND VAPOR ENCROACHMENT

The encroachment of volatile organic compound (VOC) vapors into soil pore space occurs when organic chemicals migrate from contaminated groundwater or soil into the airspace between soil particles. Some typical organics involved are petroleum based or chlorinated solvents (e.g, BTEX and dry cleaning chemicals). They may have leaked into the groundwater and/or soil from underground storage tanks, or buried waste, or from disposal in septic systems.

In compliance with ASTM Standard E2600-10 (Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions), IWS evaluated the potential for a Vapor

Encroachment Condition (VEC) at the subject property. Based on a VEC screening, it was determined that a VEC does not exist on the subject site. A copy of the IWS-generated Tier 1 VEC screening form is provided within Appendix F.

4.0. SITE RECONNAISSANCE

A subject property site reconnaissance was conducted by Mr. Jim Bunck, of IWS on 3 August 2017. At the time of the site visit the weather was sunny and hot. Primary features of the property are shown in a site plan provided in Figure 2. Photographs of selected features of the subject site are included in Appendix A.

4.1. METHODOLOGY AND LIMITING CONDITIONS

The property was fully accessible during the site reconnaissance. No limiting conditions were noted.

4.2. GENERAL SITE SETTING

The following is a description of the primary features of the subject property observed at the time of the site visit:

The subject property is comprised of four contiguous parcels comprising 8.23 acres of vacant property located in the directly east of the 215 Freeway and north of Clinton Keith Road in the City of Murrieta, California. Native vegetation covers the entire site. There are no buildings or structures on the subject site. An asphalt paved road divides the property extending in a north south direction. This road is part of Antelope Road which, at one time, connected with Clinton Keith Road which forms the southern boundary of the site. (See: Figure 2).

The subject site is situated in the northeastern portion of the City of Murrieta, an area of the city comprised primarily of residential with a mix of scattered retail and commercial businesses. Residential areas are located approximately 1,300 feet east and 200 feet south of the subject site. Based on a review of historical documents, the subject property has remained vacant undeveloped land void of any agricultural use or buildings or structures.

Structures	No structures on site. A cell tower is located on a small section of land located on the northwest corner of the subject site.
Adjoining / Access / Egress Roads	Access to the site is via Antelope Road to the north.
Surface Types	Site covered with native vegetation.

Additional Features	None.
Surface Water	None.
Heating and Cooling	N/A
Sewage Discharge and Disposal	None

At the time of the site reconnaissance, current uses of adjacent properties included the following:

North	The property is bound on the north by vacant land and a continuation of Antelope Road. An inspection of this area via public access did not reveal any recognized environmental conditions.
South	The property is bound on the south by Clinton Keith Road. South of Clinton Keith Road is a residential area. An inspection of this area via public access did not reveal any recognized environmental conditions.
East	The property is bound on the east by vacant land currently being graded for soil and rock. An inspection of this area via public access did not reveal any recognized environmental conditions.
West	The property is bound on the west by the north bound on-ramp from Clinton Keith Road to the I-215 Freeway. West of the Freeway is the Orchard shopping center. An inspection of this area via public access did not reveal any recognized environmental conditions.

Current uses of the adjoining properties do not appear to be of potential environmental concern to the subject property.

4.3. EXTERIOR OBSERVATIONS

The following was observed at the time of the site reconnaissance:

YES	NO	CONDITION OBSERVED ON/NEAR SUBJECT PROPERTY
	x	**Vent pipes, fill pipes, or access that may indicate UST or underground vault**
	x	**Strong, pungent or noxious odors**
	x	**Obvious signs of possible asbestos-containing materials (ACM)**
	x	**Electrical or hydraulic equipment that could contain PCBs**
	x	**Drains and sumps**.

YES	NO	CONDITION OBSERVED ON/NEAR SUBJECT PROPERTY
	x	**Pits, ponds or lagoons with respect to waste treatment or disposal**
x		**Stained soil or pavement, patched pavement** *Several areas of patched pavement were present along Antelope Road which extends through the subject site. It is our understanding utility lines were recently installed beneath the asphalt on this road.*
	x	**Stressed vegetation (from causes other than insufficient water)**
	x	**Fill dirt from unknown source, or contaminated source**
	x	**Solid waste (mounds or depressions suggesting waste disposal)**
	x	**Waste water / storm water discharged into a drain, ditch or stream**
	x	**Wells (abandoned, irrigation, domestic, monitoring or oil and gas)**
	x	**Dry wells**
	x	**Septic systems or cesspools**
	x	**Movement of hazardous materials to adjacent properties**
	x	**Hazardous substances and/or petroleum products in connection with identified uses**
	x	**Above-ground storage tanks (ASTs) for storage of petroleum products and/or hazardous substances.**
	x	**Underground storage tanks (USTs) for storage of petroleum products and/or hazardous substances**
	x	**Pools of liquid (other than water)**
	x	**55-gallon drum or large sack storage**
	x	**Unidentified substance containers**
	x	**Oil-water separator/clarifier**

5.0. MATERIAL STORAGE

There are no current or historic containers, storage vessels, and containment systems (e.g., clarifiers, oil/water separators, vaults, frac ponds, storage lockers, silos) on this site.

6.0. INTERVIEWS

Interviews performed during the course of this Phase I are described below.

Interviewee	Interview Summary
Property Owner	Mr. Randy Weisser, part property owner of the subject site completed the Phase I Environmental questionnaire for this assessment. Mr. Weisser indicated he is not aware of any USTs, clarifiers, or sumps located on the subject site. Mr. Weisser indicated there are no pending or past litigations relevant to hazardous substances on the property and no environmental liens placed by any governmental regulatory agency. Mr. Weisser is not aware of any releases or spills of hazardous materials from on-site businesses or adjacent properties.
Site Manager	Mr. Allan Davis. Mr. Allan Davis is unaware of any environmental concerns pertaining to the subject property
Property Occupant(s)	No occupants
Local Government Officials	With the exception of file review requests, no local government officials were interviewed during the course of this Phase I.
Others	No additional interviews were performed during the course of this Phase I.

Environmental questionnaire can be found in Appendix D.

7.0. ADDITIONAL SERVICES

Additional environmental considerations beyond the scope of the standard ASTM practice are discussed below.

7.1. MOLD

Molds are part of the natural environment. Outdoors, molds play a part in nature by breaking down dead organic matter such as fallen leaves and dead trees, but indoors, mold growth should be avoided. Molds reproduce by means of tiny spores; the spores are invisible to the naked eye and float through outdoor and indoor air. Mold may begin growing indoors when mold spores land on surfaces that are wet. There are many types of mold, and none of them will grow without water or moisture.

Molds are usually not a problem indoors, unless mold spores land on a wet or damp spot and begin growing. Molds have the potential to cause health problems. Molds produce allergens (substances that can cause allergic reactions), irritants, and in some cases, potentially toxic substances (mycotoxins).

At the time of the property reconnaissance, IWS did not observe the presence of mold.

7.2. ASBESTOS CONTAINING BUILDING MATERIALS

Asbestos is a mineral fiber that has been used commonly in a variety of building construction materials for insulation and as a fire-retardant. Because of its fiber strength and heat resistant properties, asbestos has been used for a wide range of manufactured goods, mostly in building materials (roofing shingles, ceiling and floor tiles, paper products, and asbestos cement products), friction products (automobile clutch, brake, and transmission parts), heat-resistant fabrics, packaging, gaskets, and coatings.

Prior to the late 1970s, building products and insulation materials commonly contained asbestos. In 1989, the USEPA banned all new uses of asbestos; however, uses developed before 1989 are still allowed. When asbestos-containing materials are damaged or disturbed by repair, remodeling or demolition activities, microscopic fibers become airborne and can be inhaled into the lungs, where they can cause significant health problems.

There are no buildings or structures on the site.

7.3. LEAD-BASED PAINT

Lead is a toxic metal that was used for many years in products found in and around our homes. Lead-based paint (LBP) was used extensively in buildings constructed before 1950. In 1978, LBP was banned by the federal government. Lead may cause a range of health defects, from behavioral problems and learning disabilities, to seizures and death.

There are no buildings or structures on the site.

7.4. RADON

Radon is a naturally occurring, colorless, odorless gas that is soluble in water. It is produced through the radioactive decay of uranium and radium, which is naturally present in soil and in minerals in bedrock. Radon is radioactive, which means that it breaks down or decays to form other elements. Radon concentrations generally differ among different rock types and can vary considerably within the same geologic formation. Radon moves from its source in rocks and soils through voids and fractures. It can enter buildings as a gas through foundation cracks or it can dissolve in groundwater and be carried to buildings through the use of water-supply wells. Buildings with basements and concrete slab foundations are more susceptible to elevated levels of indoor radon gas. The inhalation of radon gas can cause damage to lung tissue.

A common unit of radioactivity measurement is picocuries per liter (pCi/L). The USEPA established the recommended safe radon level at 4 pCi/L. According to the USEPA, the subject property county, Riverside County, is located in a low radon potential area (Zone 2), defined as having a predicted average indoor radon screening level between 2.0 and 4.0 pCi/L.

7.5. WETLANDS

As reported in Section 3.2., according to the EDR Report (Appendix C) the subject property is not located within a National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR from the U.S. Fish and Wildlife Service.

7.6. REGULATORY COMPLIANCE

Since no physical address(s) are attached to the parcels which make the subject site, IWS could not search regulatory permitting or requirements/directives in connection with the property.

8.0. EVALUATION

Any deviations from the ASTM Standard Practice 1527E-13 and USEPA AAI are presented below, along with the findings, conclusions, and opinions identified during the course of this Phase I.

8.1. DATA GAPS AND LIMITATIONS

A data gap occurs when a lack of, or inability to obtain information required by this practice despite good faith efforts by the environmental professional to gather such information. Data gaps may result from incompleteness in any of the activities required by this practice, including, but not limited to site reconnaissance, and interviews. The following data gaps and/or limitations were identified during the course of this Phase I, which may deviate from the ASTM standard practice:

- The largest data gap in research was 37 years, between 1901 and 1938. Data gaps generally do not exceed five years between 1967 through the present. IWS does not believe any gaps in the data reviewed have affected the ability to identify recognized environmental concerns.

8.2. FINDINGS

Based on the standards set by ASTM Practice E1527-13, the following findings are differentiated below as *de minimis* conditions unlikely to be subject to government enforcement, HRECs, CRECs and RECs, as defined in Section 1.1. of this report.

8.2.1. *De Minimis* Conditions

This assessment revealed no evidence of potential or *de minimis* conditions in connection with the subject property.

8.2.2. Historical Recognized Environmental Conditions

This assessment has revealed no evidence of HRECs in connection with the subject property.

8.2.3. Controlled Recognized Environmental Conditions

This assessment has revealed no evidence of CRECs in connection with the subject property.

8.2.4. Recognized Environmental Conditions

This assessment has revealed no evidence of RECs in connection with the subject property

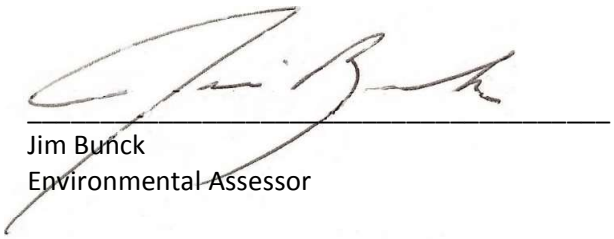
8.3. CONCLUSIONS, OPINIONS, AND RECOMENDATIONS

IWS Environmental Inc. has performed a *Phase I Environmental Site Assessment* in conformance with the scope and limitations of ASTM Practice E1527-13, US-EPA AAI for 8.23 acres of vacant land located in the directly east of the 215 Freeway and north of Clinton Keith Road in the City of Murrieta, California. This assessment has revealed no evidence of any RECs in connection with the subject property. No additional assessments are recommended at this time.

8.4. SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental professional as defined in §312.10 of 40 CFR § 312 and we have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. We have developed and performed all of the

appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.



Jim Bunck
Environmental Assessor

8.5. QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

Qualifications of the environmental professionals involved in the preparation of this Phase I are included in Appendix H.

8.6. REFERENCES

The following documents, maps or other publications may have been utilized during the preparation of this Phase I:

- ASTM, E1527-13 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, 2013.
- California Department of Water Resources (DWR), Groundwater Basins in California, Version 3.0., 2003.
- Environmental Data Resources Inc. (EDR)-prepared: The EDR Radius Map, The EDR-City Directory Abstract, Certified Sanborn® Map Report, EDR Historical Topographic Map Report, EDR Historical Aerial Photograph Report.
- CDM Smith, *2014 Annual Comprehensive Groundwater Monitoring Report, PVOU Intermediate Zone*, 12 November 2014.

The following websites may have been accessed to obtain information during the preparation of this Phase I:

- California State Water Resource Control Board's GeoTracker website: http://geotracker.swrcb.ca.gov/
- California Geological Survey – Note 36: California Geomorphic Provinces: http://www.consrv.ca.gov/CGS/information/publications/cgs_notes/note_36/note_36.

pdf

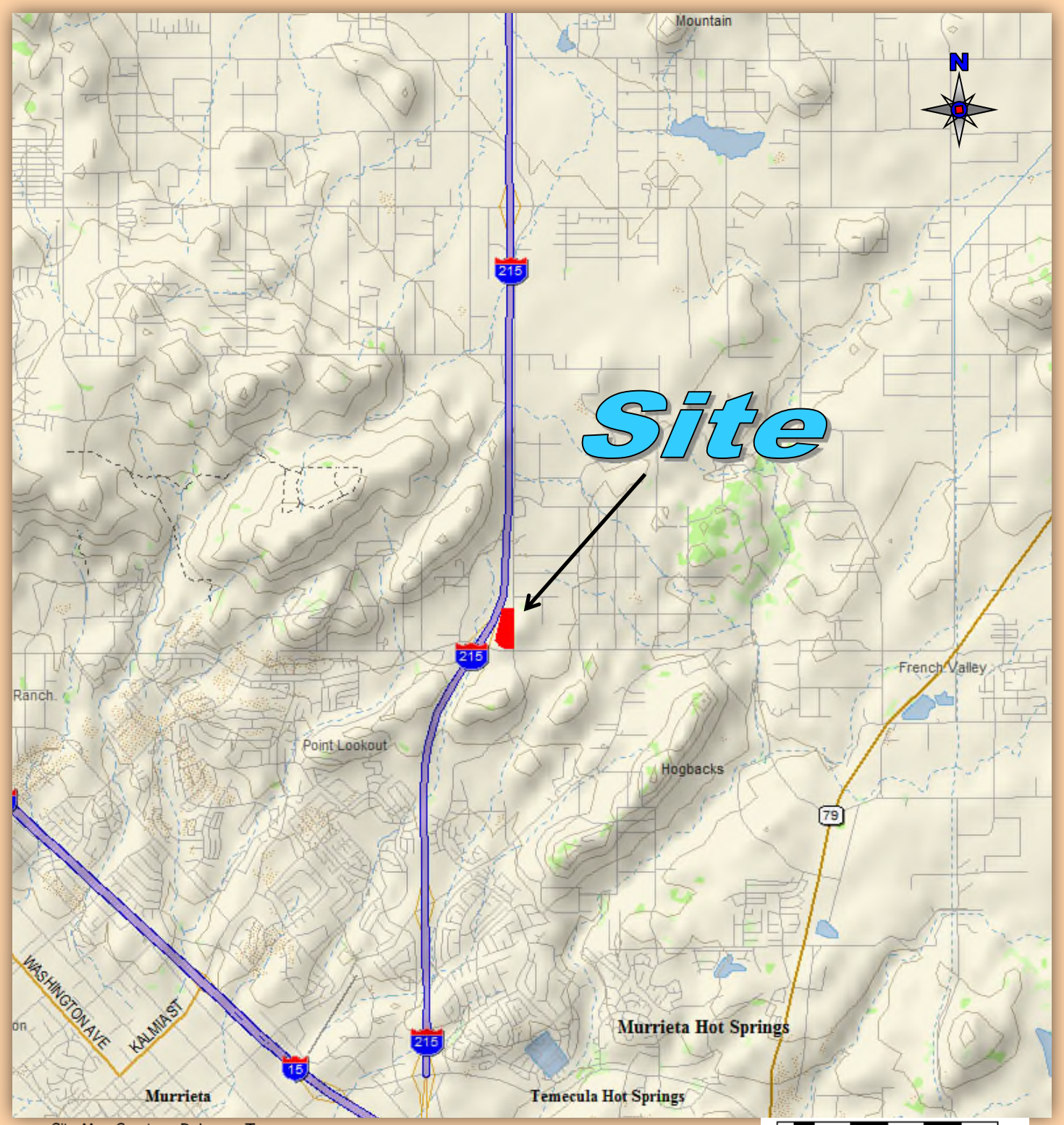
- California Department of Water Resources website: http://www.cd.water.ca.gov/
- DTSC's ENVIROSTOR website: www.envirostor.dtsc.ca.gov/public
- DTSC's HWTS website: http://www.hwts.dtsc.ca.gov/
- FEMA's website: www.fema.gov/
- ParcelQuest by CD-DATA online download - www.parcelquest.com
- USEPA's Envirofacts website: www.epa.gov/enviro
- USEPA's radon information website: www.epa.gov/radon/zonemap.html#mapcolors
- USEPA's lead information website: www.epa.gov/lead/
- USEPA's asbestos information website: www.epa.gov/asbestos/
- USEPA's mold information website: www.epa.gov/mold/moldguide.html
- Division of Oil, Gas and Geothermal Resources (DOGGR) Online Mapping (DOM) System: http://maps.conservation.ca.gov/doms/doms-app.html

9.0. STATEMENT OF CERTIFICATION AND RELIANCE

This report is certified to, can be relied upon by, and has been prepared for the exclusive use of the following entities; Mr. Fred Grimes and Mr. Allan Davis, and any entity approved by Mr. Grimes and Mr. Davis can convey this report to an affiliate, related entity, subsidiary, lender, title insurer, regulatory/city agency or current property owner(s) and their agents, but further distribution requires prior written approval from IWS Environmental Inc.

Figures 1, 2, 3

Figure 1 Site Location Map
Figure 2 Site Plan
Figure 3 Tax Assessor Parcel Map



Site Map Courtesy DeLorme Topo

Location Map

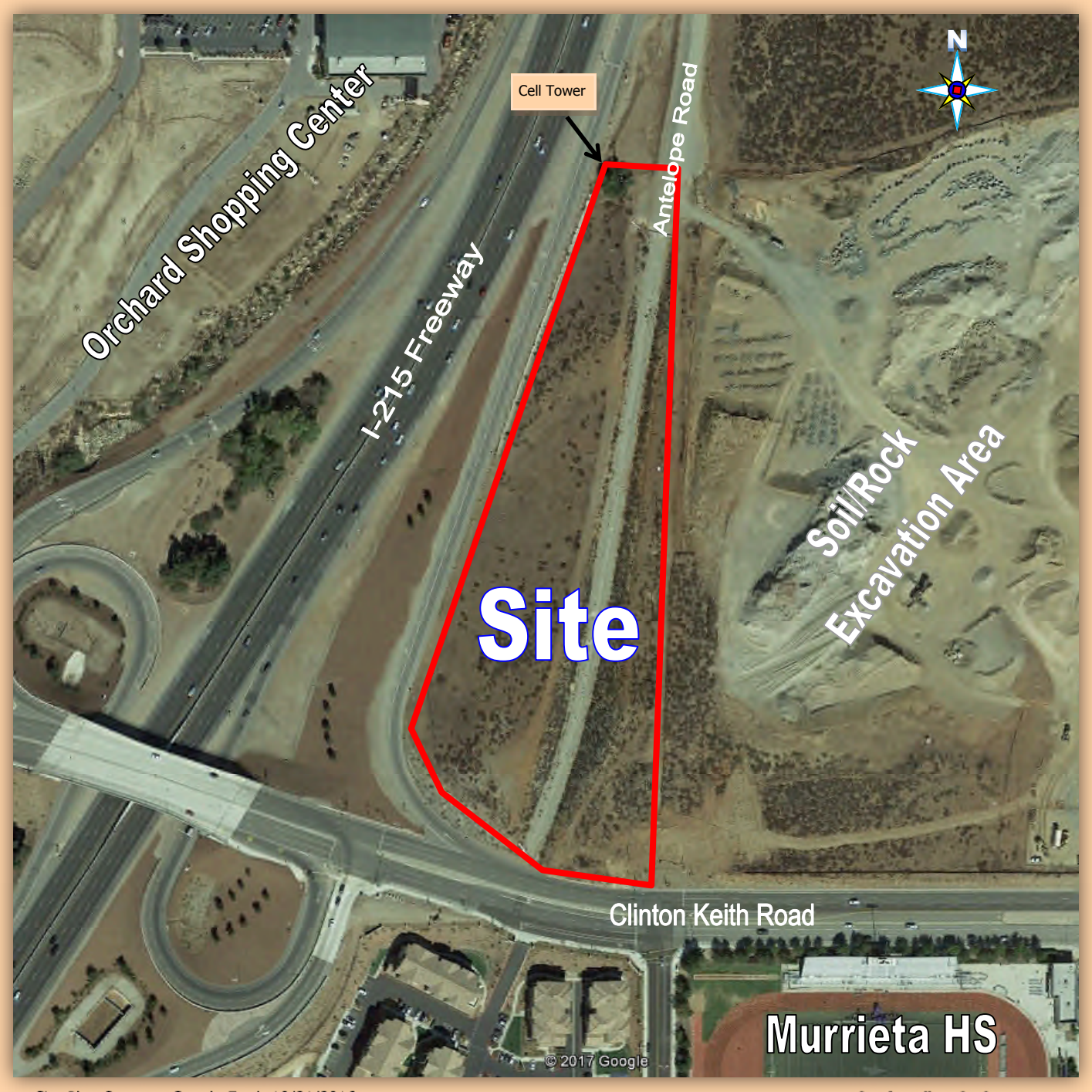
Figure 1

IWS Environmental Inc.
5211 Hartford Way
Westminster, California
92683

Phase I ESA
Val Vista
Murrieta, California

IWS Project No.
080117

August 23, 2017



Site Plan Courtesy Google Earth 10/21/2016

Scale 1" = 250 Feet

Site Plan

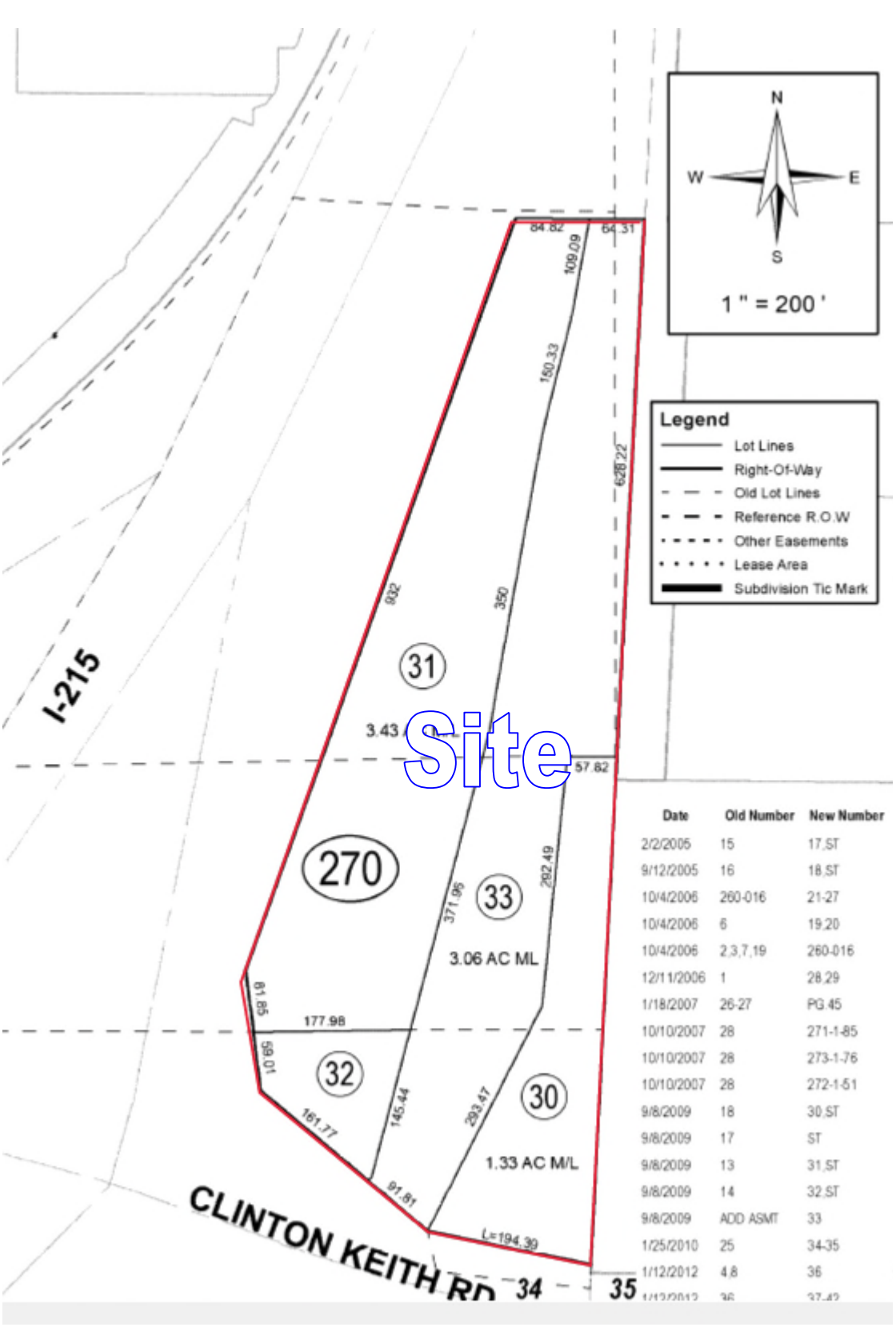
Figure 2

IWS Environmental Inc.
5211 Hartford Way
Westminster, California
92683

Phase I ESA
Val Vista
Murrieta, California

IWS Project No.
080117

August 23, 2017



IWS Environmental

5211 Hartford Way
Westminster, California
92683

Tax Assessor Map

Val Vista
Murrieta, California

Date:
August 23, 2017

Figure 3

IWS Project No.
080117

Appendix A

Photographs of Subject Property



Photograph 1: Viewing the northern portion of the site from the eastern border of the property. Antelope road iextends through the site.



Photograph 2: Viewing south from the northeast corner of the property at the dirt road which forms the eastern boundary of the site.

SITE PHOTOS



Photograph 3: Viewing north from the southern boundary of the site. Trail pictured above extends along western border of Antelope Road



Photograph 4: Viewing excavated area which lies directly east of the subject property. Murrieta High School pictured in background.

SITE PHOTOS



Photograph 5: Viewing south from the eastern border of site at residential areas located south of the property.



Photograph 6: Viewing north from southern portion of site at Antelope Road which extends through the site. Patches in road are recent placement of utility lines.

SITE PHOTOS



Photograph 7: Viewing the southwestern portion of the site. Clinton Keith Road I-215 overpass in background. .



Photograph 8: Viewing the northwestern portion of the site. The I-215 Freeway and Orchard Shopping center pictured in background.

SITE PHOTOS



Photograph 9: Viewing the northwest corner of the site. Cell site located on the very northwest corner forms the northern boundary for the site.



Photograph 10: Viewing cell tower located on the northwest corner of the site. An inspection of this cell tower and the subject site did not reveal any evidence of any former structures (e.g. foundations, pipes, etc.), or indications of any spills or illegal dumping of hazardous materials. Only wind borne debris was present on the site (paper/cardboard related debris)

SITE PHOTOS

Appendix B

Historical Documents—Historical Aerials, Topographic Maps, City Directory, Sanborn Maps

CK-17 LP

Clinton Keith Road/Antelope Road

Murrieta, CA 92563

Inquiry Number: 5006353.9

August 01, 2017

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

08/01/17

Site Name:

CK-17 LP
Clinton Keith Road/Antelope R
Murrieta, CA 92563
EDR Inquiry # 5006353.9

Client Name:

IWS Environmental
5211 Hartford Way
Westminster, CA 92683
Contact: Jim Bunck

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

Year	Scale	Details	Source
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2010	1"=500'	Flight Year: 2010	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
2005	1"=500'	Flight Year: 2005	USDA/NAIP
2002	1"=500'	Acquisition Date: May 22, 2002	USGS/DOQQ
1996	1"=500'	Flight Date: January 01, 1996	USGS
1989	1"=500'	Flight Date: August 15, 1989	USDA
1985	1"=500'	Flight Date: July 28, 1985	USDA
1978	1"=500'	Flight Date: September 20, 1978	USDA
1967	1"=500'	Flight Date: May 15, 1967	USDA
1961	1"=500'	Flight Date: August 18, 1961	USDA
1953	1"=500'	Flight Date: August 28, 1953	USDA
1949	1"=500'	Flight Date: May 23, 1949	USDA
1938	1"=500'	Flight Date: June 14, 1938	USDA

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INQUIRY #: 5006353.9
YEAR: 2012
= 500'
N
EDR



INQUIRY #: 5006353.9

YEAR: 2010

= 500'

N

EDR



INQUIRY #: 5006353.9

YEAR: 2009

= 500'

N

EDR


INQUIRY #: 5006353.9
YEAR: 2006
= 500'
N
EDR



INQUIRY #: 5006353.9

YEAR: 2005

= 500'

N

EDR



INQUIRY #: 5006353.9

YEAR: 2002

= 500'

N

EDR


INQUIRY #: 5006353.9
YEAR: 1996
= 500'
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EDR



INQUIRY #: 5006353.9

YEAR: 1989

= 500'

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EDR



INQUIRY #: 5006353.9

YEAR: 1985

= 500'

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EDR



INQUIRY #: 5006353.9

YEAR: 1978

= 500'

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EDR



INQUIRY #: 5006353.9

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= 500'

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EDR



INQUIRY #: 5006353.9

YEAR: 1961

= 500'

N

EDR



INQUIRY #: 5006353.9

YEAR: 1953

= 500'

N

EDR



INQUIRY #: 5006353.9

YEAR: 1949

= 500'

N

EDR



INQUIRY #: 5006353.9

YEAR: 1938

= 500'

N

EDR

CK-17 LP

Clinton Keith Road/Antelope Road

Murrieta, CA 92563

Inquiry Number: 5006353.4

July 27, 2017

EDR Historical Topo Map Report

with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

07/27/17

Site Name:	Client Name:
CK-17 LP	IWS Environmental
Clinton Keith Road/Antelope R	5211 Hartford Way
Murrieta, CA 92563	Westminster, CA 92683
EDR Inquiry # 5006353.4	Contact: Jim Bunck

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by IWS Environmental were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:		*Coordinates:*	
P.O.#	NA	**Latitude:**	33.599902 33° 36' 0" North
Project:	Val Vista	**Longitude:**	-117.172214 -117° 10' 20" West
		UTM Zone:	Zone 11 North
		UTM X Meters:	484022.23
		UTM Y Meters:	3717808.64
		Elevation:	1536.09' above sea level

Maps Provided:

2012
1979
1973
1953
1947
1943
1942
1901

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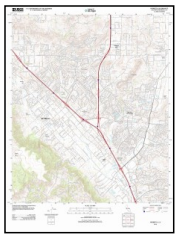
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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2012 Source Sheets



Murrieta
2012
7.5-minute, 24000

1979 Source Sheets



Murrieta
1979
7.5-minute, 24000
Aerial Photo Revised 1976

1973 Source Sheets



Murrieta
1973
7.5-minute, 24000
Aerial Photo Revised 1973

1953 Source Sheets

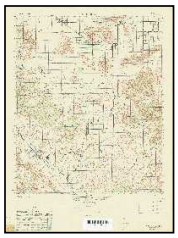


Murrieta
1953
7.5-minute, 24000
Aerial Photo Revised 1951

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1947 Source Sheets



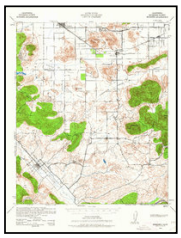
MURRIETA
1947
15-minute, 50000

1943 Source Sheets



Murrieta
1943
15-minute, 62500
Aerial Photo Revised 1939

1942 Source Sheets



Murrieta
1942
15-minute, 62500
Aerial Photo Revised 1939

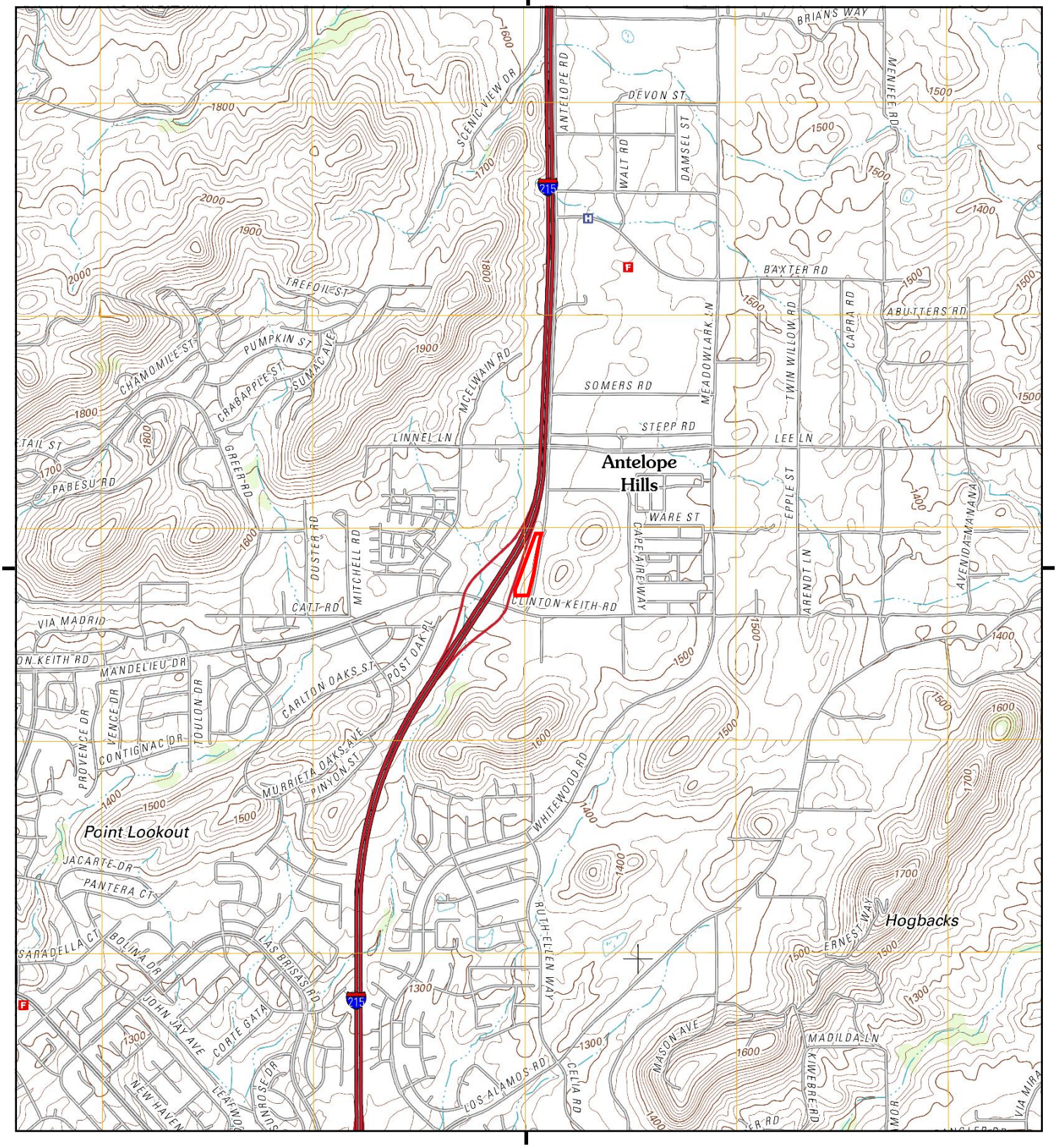
1901 Source Sheets



Elsinore
1901
30-minute, 125000

Historical Topo Map

2012



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

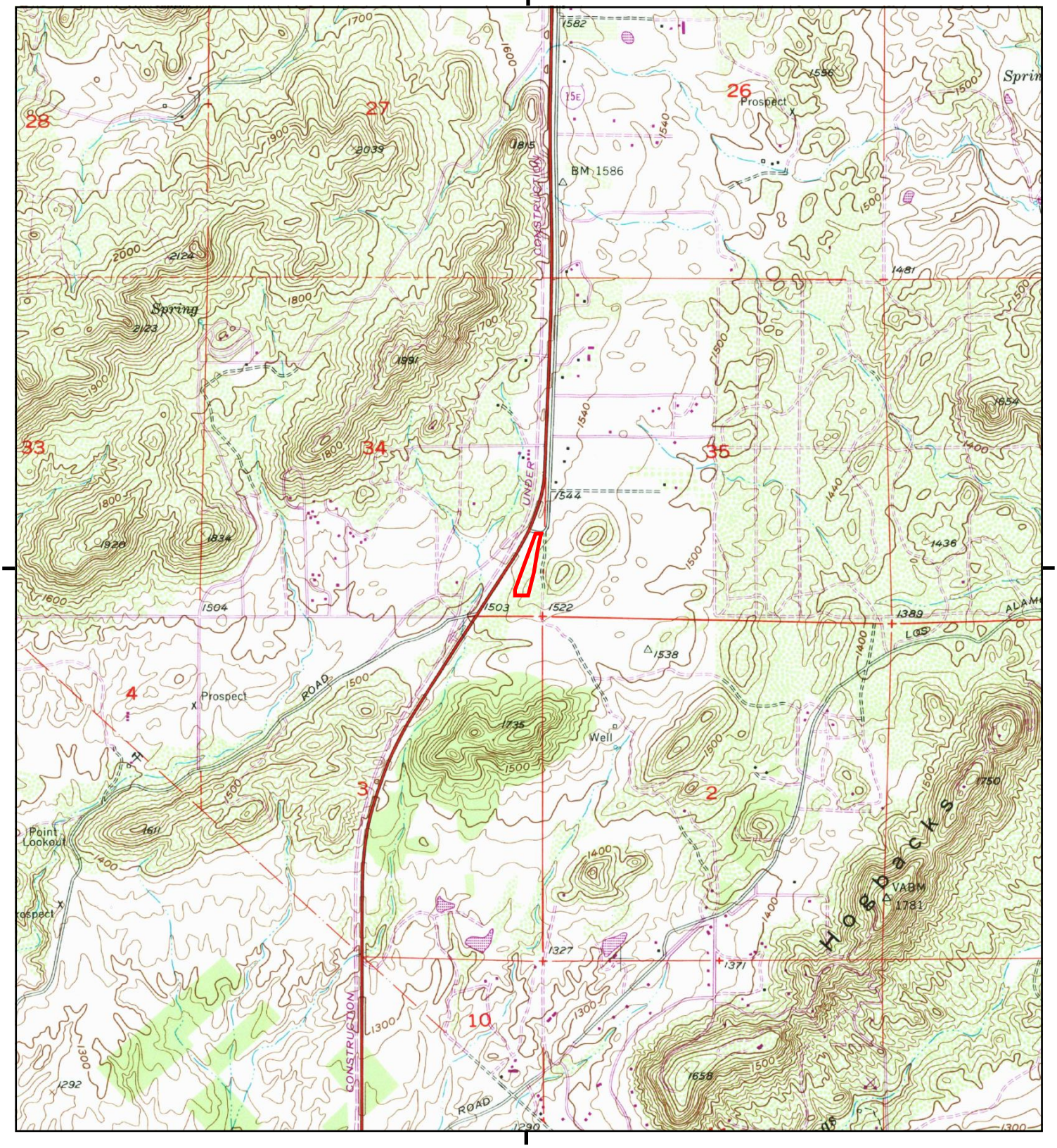
TP, Murrieta, 2012, 7.5-minute

SITE NAME: CK-17 LP
ADDRESS: Clinton Keith Road/Antelope Road
Murrieta, CA 92563
CLIENT: IWS Environmental

N

Historical Topo Map

1979



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

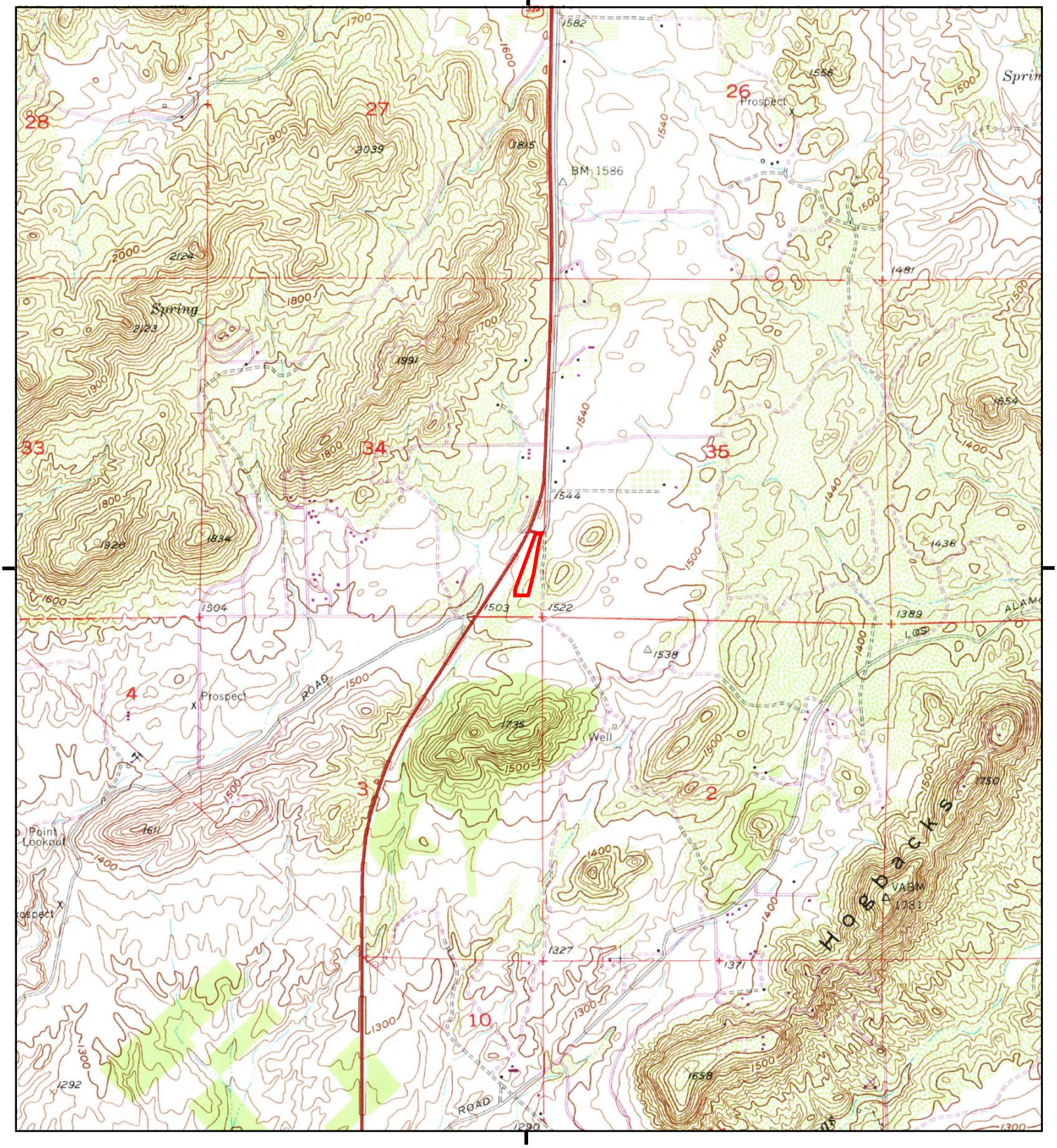
TP, Murrieta, 1979, 7.5-minute

SITE NAME: CK-17 LP
ADDRESS: Clinton Keith Road/Antelope Road
Murrieta, CA 92563
CLIENT: IWS Environmental

N

Historical Topo Map

1973



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

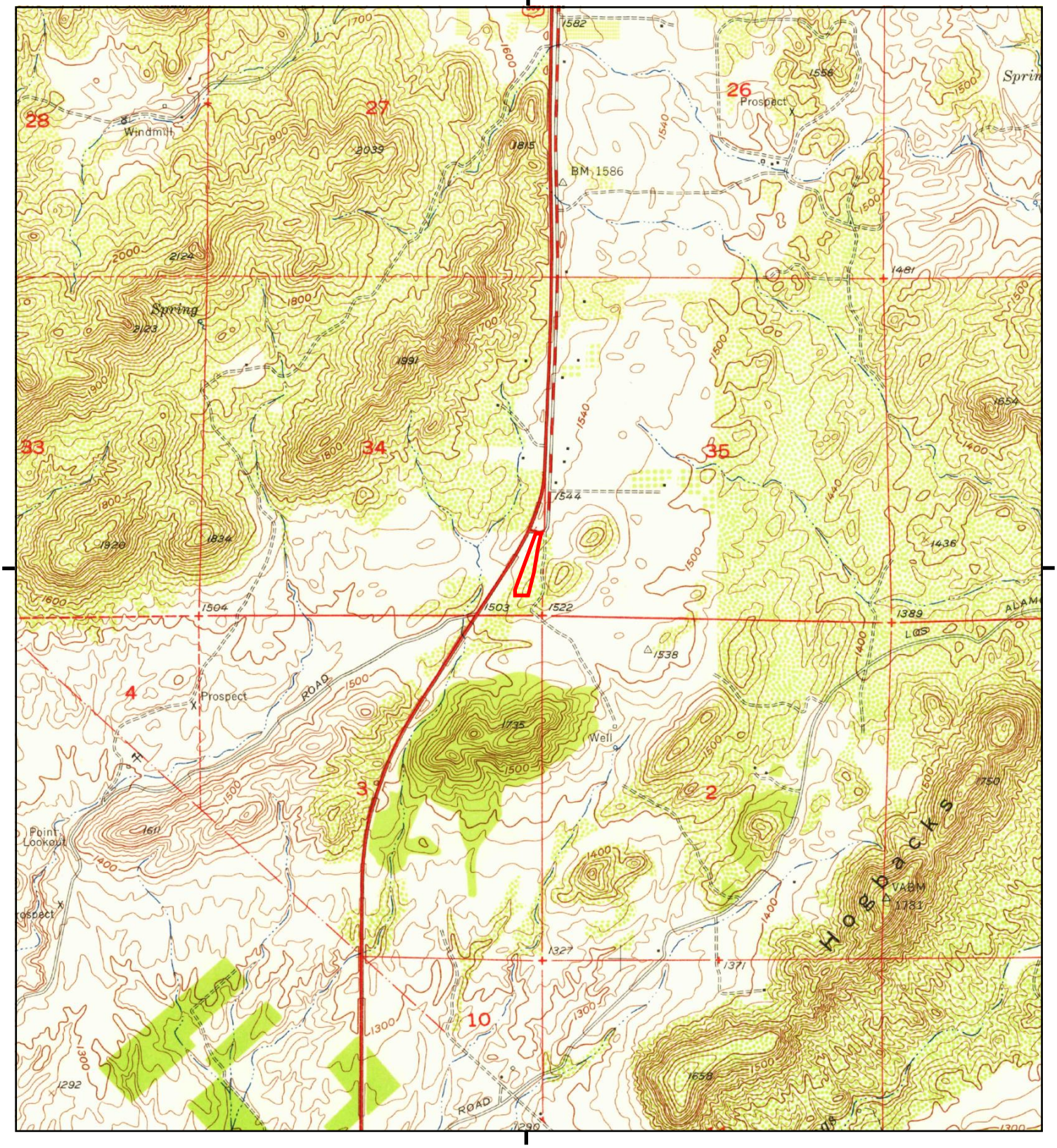
TP, Murrieta, 1973, 7.5-minute

SITE NAME: CK-17 LP
ADDRESS: Clinton Keith Road/Antelope Road
Murrieta, CA 92563
CLIENT: IWS Environmental

N

Historical Topo Map

1953



This report includes information from the following map sheet(s).

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NW N NE
W E
SW S SE

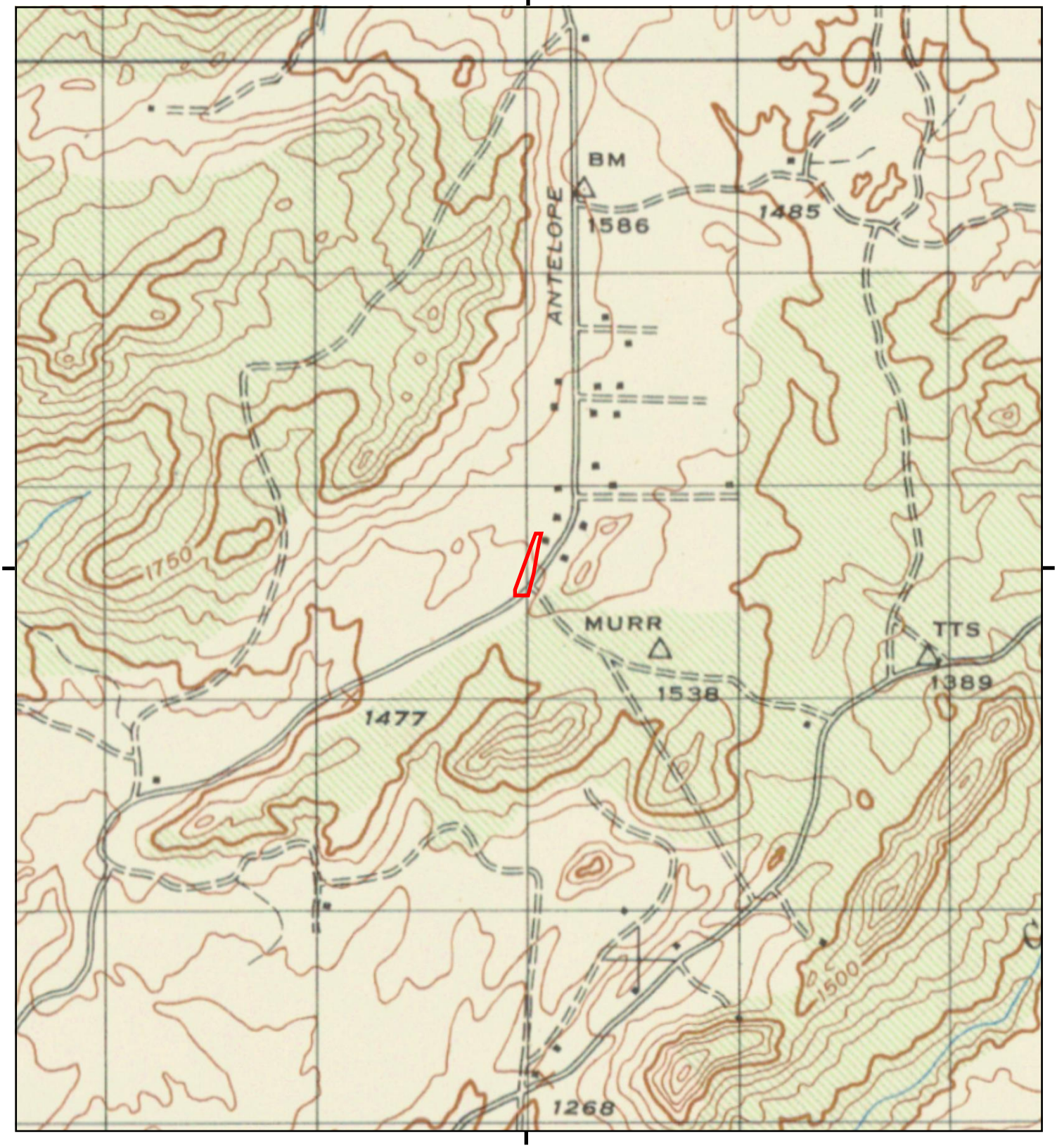
TP, Murrieta, 1953, 7.5-minute

SITE NAME: CK-17 LP
ADDRESS: Clinton Keith Road/Antelope Road
Murrieta, CA 92563
CLIENT: IWS Environmental

N

Historical Topo Map

1947



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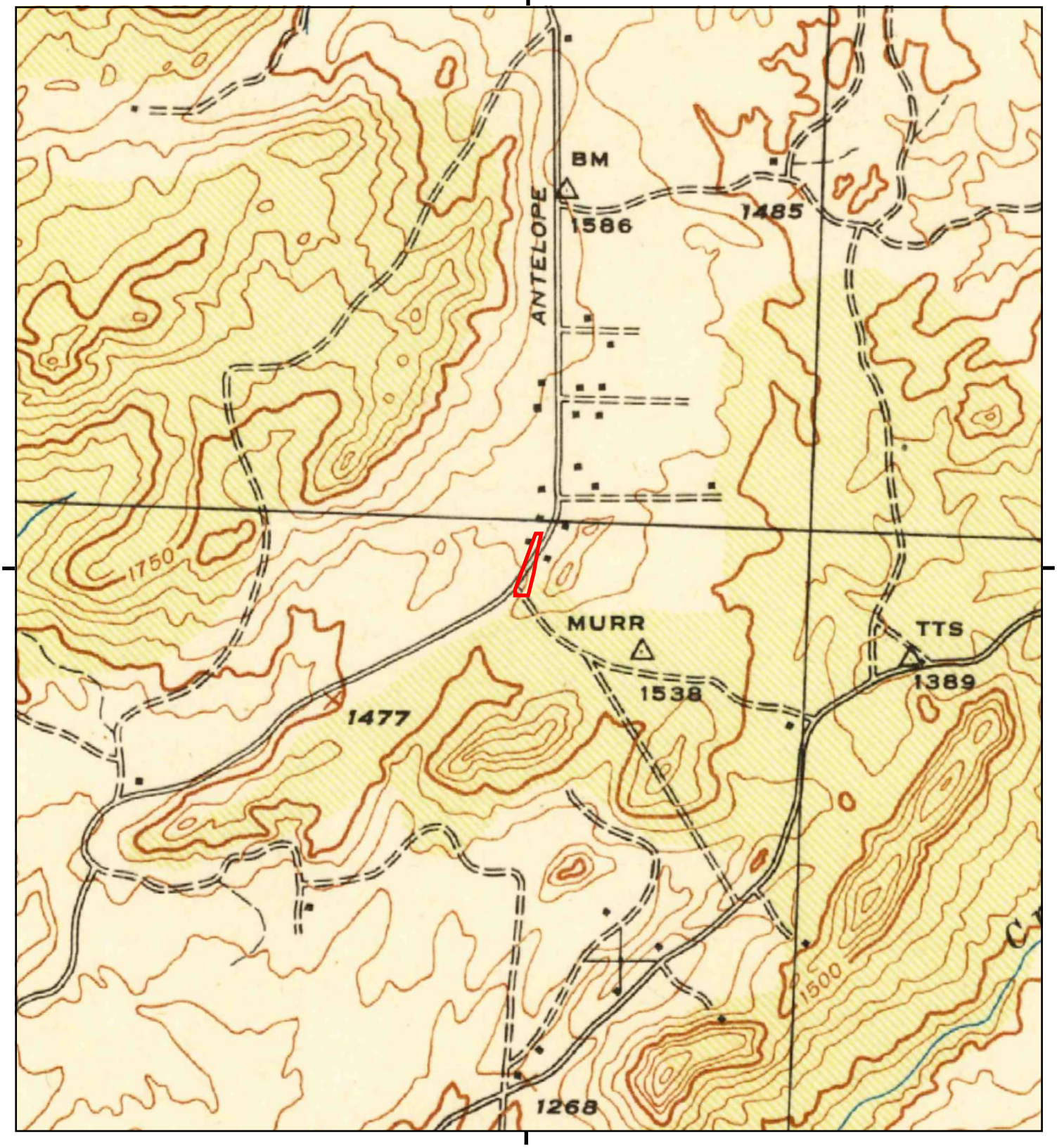
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, MURRIETA, 1947, 15-minute

SITE NAME: CK-17 LP
ADDRESS: Clinton Keith Road/Antelope Road
Murrieta, CA 92563
CLIENT: IWS Environmental

N



This report includes information from the following map sheet(s).

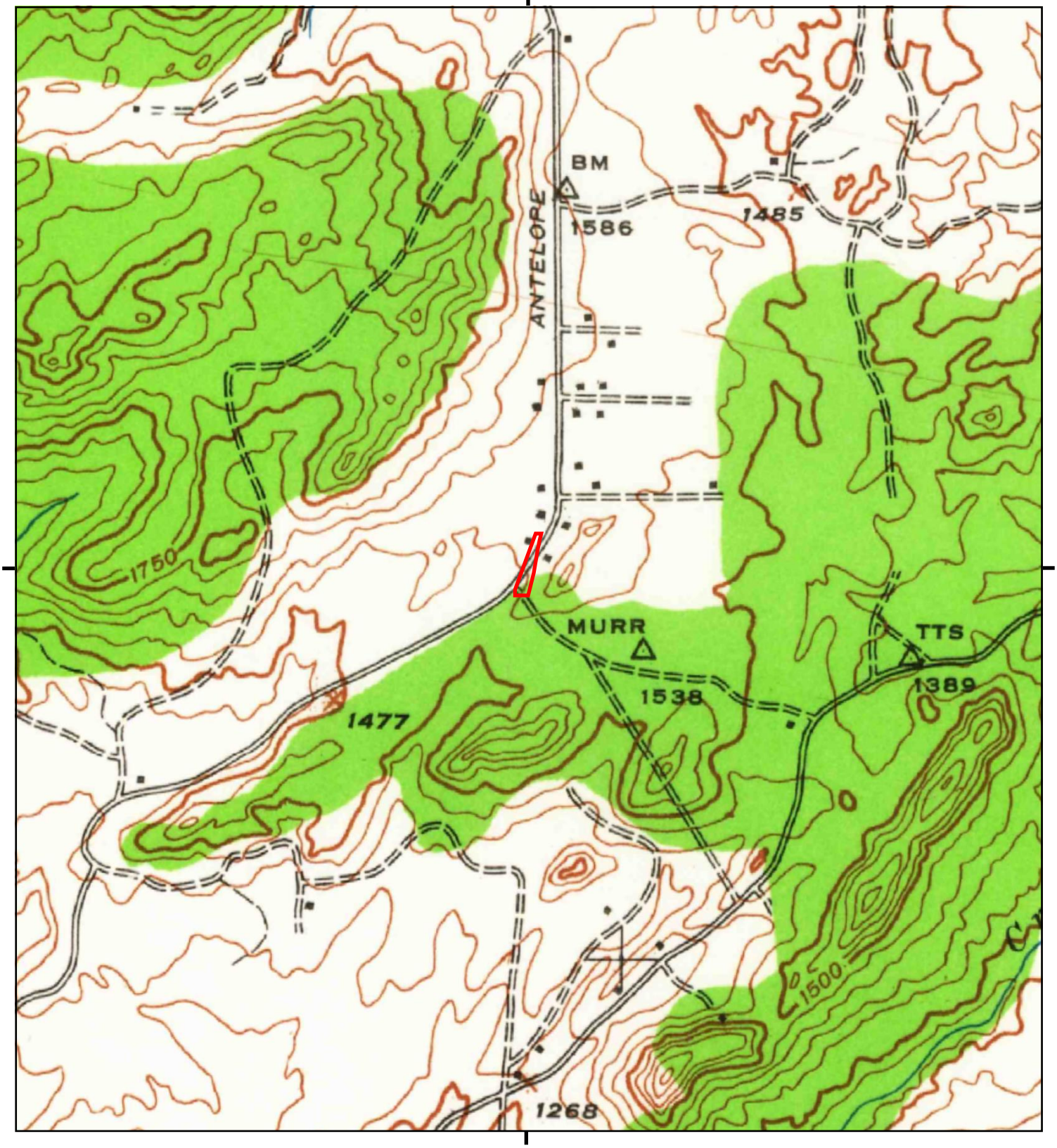
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Murrieta, 1943, 15-minute

SITE NAME: CK-17 LP
ADDRESS: Clinton Keith Road/Antelope Road
Murrieta, CA 92563
CLIENT: IWS Environmental

N



This report includes information from the following map sheet(s).

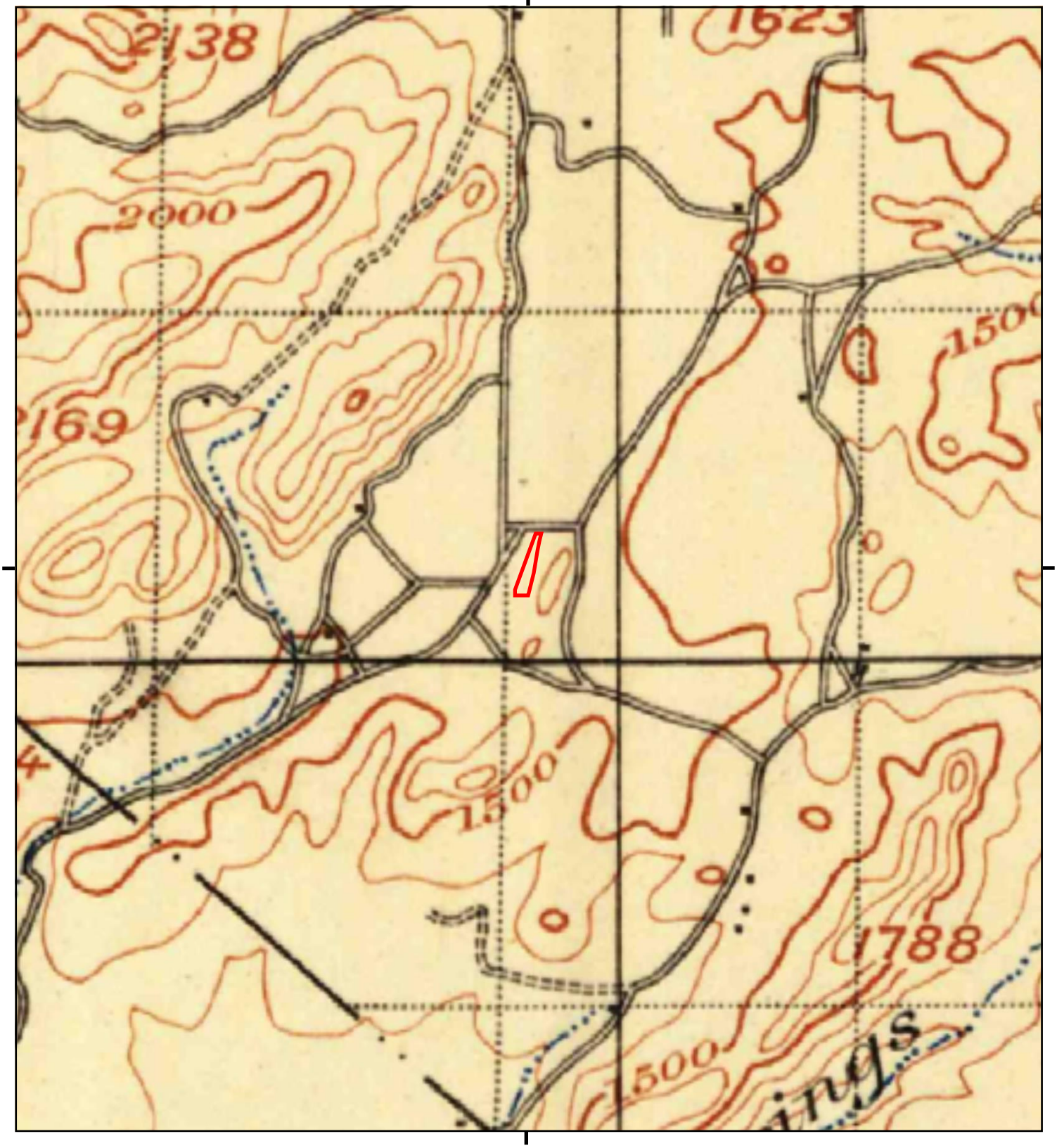
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Murrieta, 1942, 15-minute

SITE NAME: CK-17 LP
ADDRESS: Clinton Keith Road/Antelope Road
Murrieta, CA 92563
CLIENT: IWS Environmental

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Elsinore, 1901, 30-minute

SITE NAME: CK-17 LP
ADDRESS: Clinton Keith Road/Antelope Road
Murrieta, CA 92563
CLIENT: IWS Environmental

N

CK-17 LP
Clinton Keith Road & Antelope Road
Murrieta, CA 92563

Inquiry Number: 5006353.5
July 31, 2017

The EDR-City Directory Image Report

Environmental Data Resources Inc
6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

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with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

Year	*Target Street*	*Cross Street*	*Source*
2013	☑	☑	Cole Information Services
2008	☑	☑	Cole Information Services
2003	☑	☑	Cole Information Services
1999	☑	☑	Cole Information Services
1995	☑	☐	Cole Information Services
1992	☐	☐	Cole Information Services
1990	☑	☑	Haines Criss-Cross Directory
1985	☑	☑	Haines Criss-Cross Directory
1980	☑	☑	Haines Criss-Cross Directory
1975	☑	☐	Haines Criss-Cross Directory

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FINDINGS

TARGET PROPERTY STREET

Clinton Keith Road & Antelope Road
Murrieta, CA 92563

Year	*CD Image*	*Source*	
ANTELOPE RD			
2013	pg A1	Cole Information Services	
2008	pg A3	Cole Information Services	
2003	pg A5	Cole Information Services	
1999	pg A7	Cole Information Services	
1995	pg A9	Cole Information Services	
1992	-	Cole Information Services	Target and Adjoining not listed in Source
1990	pg A10	Haines Criss-Cross Directory	
1985	pg A12	Haines Criss-Cross Directory	
1980	pg A14	Haines Criss-Cross Directory	
1975	pg A16	Haines Criss-Cross Directory	

FINDINGS

CROSS STREETS

Year	*CD Image*	*Source*	
CLINTON KEITH RD			
2013	pg. A2	Cole Information Services	
2008	pg. A4	Cole Information Services	
2003	pg. A6	Cole Information Services	
1999	pg. A8	Cole Information Services	
1995	-	Cole Information Services	Target and Adjoining not listed in Source
1992	-	Cole Information Services	Target and Adjoining not listed in Source
1990	pg. A11	Haines Criss-Cross Directory	
1985	pg. A13	Haines Criss-Cross Directory	
1980	pg. A15	Haines Criss-Cross Directory	
1975	-	Haines Criss-Cross Directory	Street not listed in Source

City Directory Images

Target Street	Cross Street	Source
✓	-	Cole Information Services

ANTELOPE RD 2013

33040	ANTELOPE CLEANERS
	HOLE N ONE DONUTS & BAGELS
	J J SUSHI
	NAILSANDSPACOM
	SUBMARINA CALIFORNIA SUBS
	WORLD CLASS MIXED MARTIAL ARTS CENTE
33050	ANGEL CARE PET HOSPITAL
	PREPAID TELECONNECT INC
	PRESTIGE DENTAL GROUP
	SCHIEFFER REAL ESTATE GRP INC
	WOOD ROCK FIRE PIZZERIA
33060	WALGREENS
33070	SCOTT MURRIETS SERVICE STATION L
33080	JACK IN THE BOX
33250	JOHN HARRISON
33275	PUBLIC STORAGE
33300	JOHN HARRISON
34150	ALL ACCESS EQUIPMENT RENTALS INC
	ALL CLEAN SWEEPING INC
	GUTTERS N COVERS INC
	MINEGAR CONTRACTING
	QUICK COVERS
	SAFETY RAILS OF CALIFORNIA
34250	MISAEL PEREZ
	SUNRIZE STAGING INC
34470	RONALD GERVAIS
34510	OCCUPANT UNKNOWN
34515	DONALD ROMERO
34520	ASHLEY LOPEZ
34888	MARK JOSEFSEN
34970	OCCUPANT UNKNOWN
35400	TRANSIT SALES INTERNATIONAL
35600	OCCUPANT UNKNOWN

Target Street	Cross Street	Source
-	✓	Cole Information Services

CLINTON KEITH RD 2013

27584	MOUNTAIN VIEW TIRE & SERVICE
27596	DEL TACO
27690	BANK OF AMERICA
27714	WALGREENS
27722	GREEN ORCHARD CLEANERS
	ORCHARD BARBER SHOP
27818	STARBUCKS COFFEE
	TARGET
27826	DIXIELINE LUMBER PROBUILD
27890	ANTON BRISKI
	CRAIG PLOTT
	EDWARD VILLANUEVA
	GARY GALBRAITH
	GAYNELLE MANUEL
	GILES KENNEDY
	JOHN TEW
	JUICE IT UP
	MANUEL GIL
	MICHAEL WOODWARD
	NADIA GUIRGUIS
	RACHEL ROMAN
	SHANE EDINGER
	SKYLAR LEWIS
	STARBUCKS COFFEE
	THE UPS STORE
	VERMA SUBWAY
	XTREME FROZEN YOGURT
28251	MURRIETA VALLEY UNIFIED SCHOOL DISTR
28680	PAUL BAIMBRIDGE

Target Street	Cross Street	Source
✓	-	Cole Information Services

ANTELOPE RD 2008

33250	JOHN HARRISON
33275	HERITAGE SELF STORAGE LLC
	PUBLIC STORAGE
33300	DOLORES HARRISON
34150	ABIGAIL WRIGHT
	E D IRON WORKS
34250	OCCUPANT UNKNOWN
34470	RONALD GERVAIS
34510	OCCUPANT UNKNOWN
34515	DONALD ROMERO
34520	EDGAR HERNANDEZ
34970	OCCUPANT UNKNOWN
35246	FERGUSON WATERWORKS
	STOCK BUILDING SUPPLY INC
35400	TRANSIT SALES INTERNATIONAL
35500	OCCUPANT UNKNOWN
35530	PHIL NYE
35600	OCCUPANT UNKNOWN

Target Street	Cross Street	Source
-	✓	Cole Information Services

CLINTON KEITH RD 2008

27826	DIXIELINE LUMBER
27890	STARBUCKS CORP
	THE UPS STORE
28251	VISTA MURRIETA HIGH SCHOOL
28680	JOACHIM BEGHER

Target Street	Cross Street	Source
✓	-	Cole Information Services

ANTELOPE RD 2003

33250	JOHN HARRISON
33300	DOLORES HARRISON
34010	KARL SCANLAN
34150	ABIGAIL WRIGHT
	LILLIAN THOMPSON
	WRIGHT IRONWORKS
34250	CANYON SPRINGS NRSRY & LNDSCP
	CONTRACTORS STORAGE SYSTEMS
	JAMES WADE
34510	AMY SPERA
34515	DONALD ROMERO
34520	DAVID HILL
34888	JOHN MCGRATH
34970	DARRELL WOOD
35070	BEDON CONSTRUCTION INC
	DONALD PARKER
35246	MARK HARRISON
35400	CARSON EQUIPMENT
	TRANSIT SALES INTERNATIONAL
35500	DAWN RENNER
35530	OCCUPANT UNKNOWN
35600	OCCUPANT UNKNOWN

Target Street	Cross Street	Source
-	✓	Cole Information Services

CLINTON KEITH RD 2003

28680 JOACHIM BEGHER

Target Street	Cross Street	Source
✓	-	Cole Information Services

ANTELOPE RD 1999

33250 JOHN HARRISON
33300 JOHN HARRISON
34150 ABIGAIL WRIGHT
34470 RONALD GERVAIS
34515 DONALD ROMERO
34520 EDGAR HERNANDEZ
35246 AMERICAN RENT A FENCE
35400 CARSON EQUIPMENT
35530 PHIL NYE

Target Street	Cross Street	Source
-	✓	Cole Information Services

CLINTON KEITH RD 1999

27890 KELLY DUTRA
28680 JOACHIM BEGHER

Target Street	Cross Street	Source
✓	-	Cole Information Services

ANTELOPE RD 1995

34888 MCGRATH, JOHN L
35400 CARSON 6CS EQUIP RENTAL
35501 BARNES, ROBERT K

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

ANTELOPE RD 1990

25740	OTT Kenny	657-6151	+0
25754	KEARNS H Danl	657-1381	9
25755	XXXX	00	
25764	MOREAU Douglas	699-0404	+0
	MOREAU Douglas	943-0104	+0
25766	XXXX	00	
25889	PETERSON Betty	657-3083	2
25890	*ROMOLAND ELEM SC	657-5245	+0
	*ROMOLAND ELEM SC	657-0688	+0
	*ROMOLAND ELEM SC	657-9077	+0
	*ROMOLAND HEADSTART	657-2425	6
	*ROMOLAND SC DIST	657-0779	+0
25926	*TOMMY TICKLES TOWNG	943-2129	7

ZIP CODE 92355

30500	XXXX	00	
31550	XXXX	00	
34010	SMITH A F	679-1064	
34150	MOREHOUSE G H	679-5218	
34250	*CANYON SPRGS NRSRY	679-2509	+0
	WADE Jas	679-4027	+0
	WADE Shanna	679-4027	+0
34270	XXXX	00	
34510	PINKERTON Gary	672-4102	+0
34515	ROMERO Donald	672-4224	6
34870	CHAPPELL Roy C	679-3209	
34970	MCGRATH John L	679-1519	4
35070	OGILVIE Robt	679-7801	
35246	*BRAMAK CORP	672-1947	+0
35300	XXXX	00	
35400	*CARSONS 6CS EQUIP	672-1453	9
	SMITH Don	679-0731	+0
35500	XXXX	00	
35501	BARNES Robt K	679-5783	

* 14 BUS 64 RES 16 NEW

Target Street	Cross Street	Source
-	✓	Haines Criss-Cross Directory

CLINTON KEITH RD 1990



+CLINTON KEITH RD
(90) 92362 MURRIETA

32580	HERNDON Edward F	00	5
36325	*BEAR CREEK DVLP FAX	677-7248	+0
	*BEAR CRK DVLP ACCTN	677-9817	+0
	*BEAR CRK DVLP ADM	677-9819	+0
	*BEAR CRK DVLP CONST	677-7483	+0
	*BEAR CRK DVLP HSKPG	677-6061	+0
	*BEAR CRK DVLP INFO	677-9861	+0
	*BEAR CRK DVLP SALES	677-7487	+0
	*BEAR CRK DVLP SERV	677-9138	+0

* 8 BUS 1 RES 8 NEW

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

ANTELOPE RD 1985

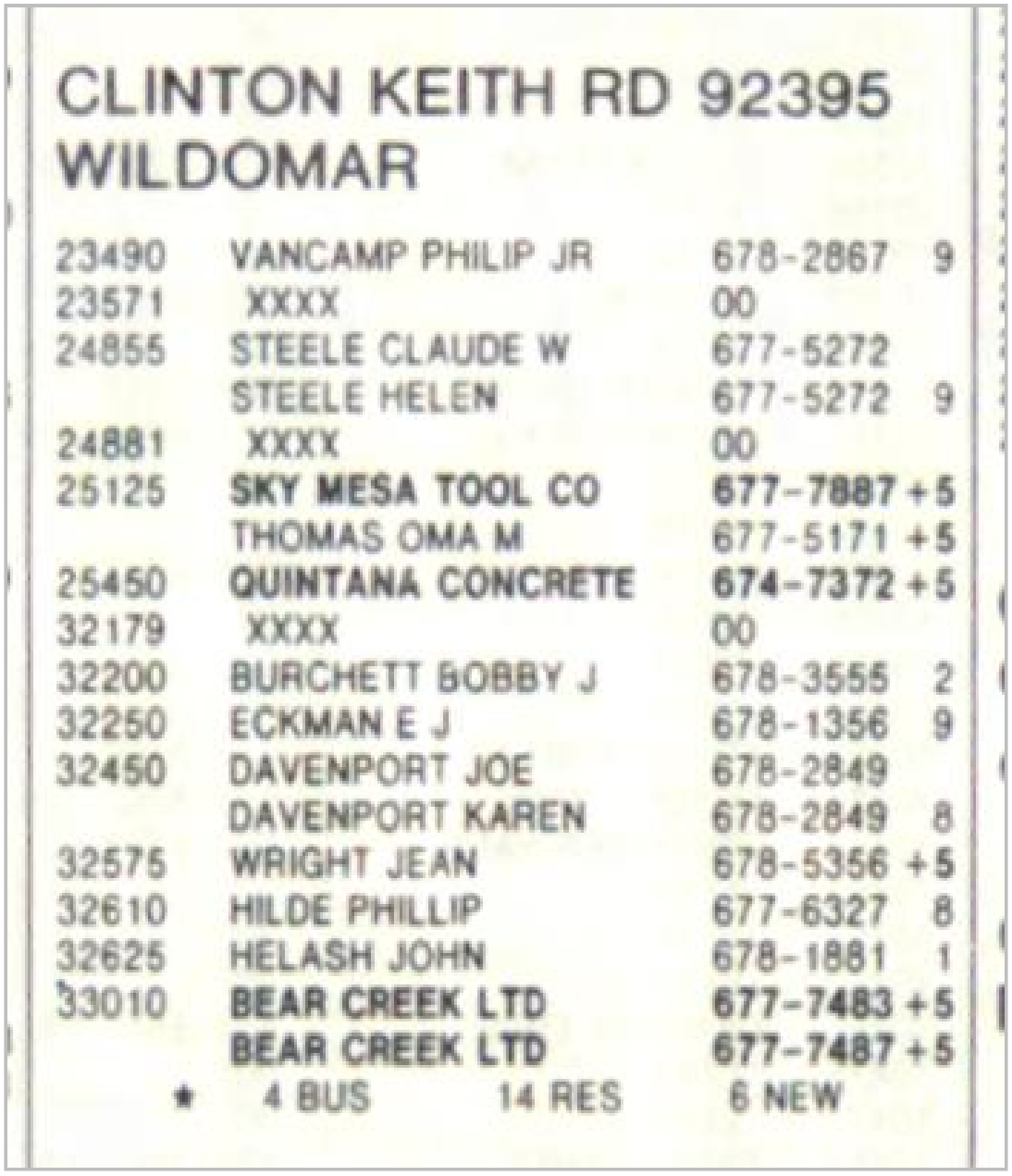
25740	OTT KENNY	657-6151	9
25754	XXXX	00	
25755	FINE HORACE O	657-5758	2
25764	XXXX	00	
25766	ROBEY RANDALL	657-6594	0
25855	GRAHAM LAWRENCE	657-3428	+5
25887	PETTERSON TERESA	943-1600	4
25889	PETERSON BETTY	657-3083	2
25890	**ROMOLAND SC SPCL ED**	**657-9077**	**+5**
	ROMOLAND SCHOOL	**657-0688**	**+5**
25926	XXXX	00	
*	8 BUS 35 RES	9 NEW	

ANTELOPE RD 92381
SUN CITY

31550	**ADAIR AUTOMOTIVE**	**679-7654**	4
34010	SMITH A F	679-1064	0
34150	MOREHOUSE G H	679-5218	0
34270	XXXX	00	
34470	XXXX	00	
34510	VELASCO ROBT	679-0330	+5
34530	XXXX	00	
34870	CHAPPELL RAY C	679-3209	
34880	XXXX	00	
34970	MCGRATH JOHN L	679-1519	4
35070	OGILVIE BOB	679-7801	4
	OGILVIE PAUL	679-7801	
35085	XXXX	00	
35246	XXXX	00	
35501	BARNES ROBT K	679-5783	7
35530	NYE PHILIP L	679-1273	2
*	1 BUS 15 RES	1 NEW	

Target Street	Cross Street	Source
-	✓	Haines Criss-Cross Directory

CLINTON KEITH RD 1985



CLINTON KEITH RD 92395
WILDOMAR

23490	VANCAMP PHILIP JR	678-2867	9
23571	XXXX	00	
24855	STEELE CLAUDE W	677-5272	
	STEELE HELEN	677-5272	9
24881	XXXX	00	
25125	SKY MESA TOOL CO	677-7887	+5
	THOMAS OMA M	677-5171	+5
25450	QUINTANA CONCRETE	674-7372	+5
32179	XXXX	00	
32200	BURCHETT BOBBY J	678-3555	2
32250	ECKMAN E J	678-1356	9
32450	DAVENPORT JOE	678-2849	
	DAVENPORT KAREN	678-2849	8
32575	WRIGHT JEAN	678-5356	+5
32610	HILDE PHILLIP	677-6327	8
32625	HELASH JOHN	678-1881	1
33010	BEAR CREEK LTD	677-7483	+5
	BEAR CREEK LTD	677-7487	+5

* 4 BUS 14 RES 6 NEW

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

ANTELOPE RD 1980

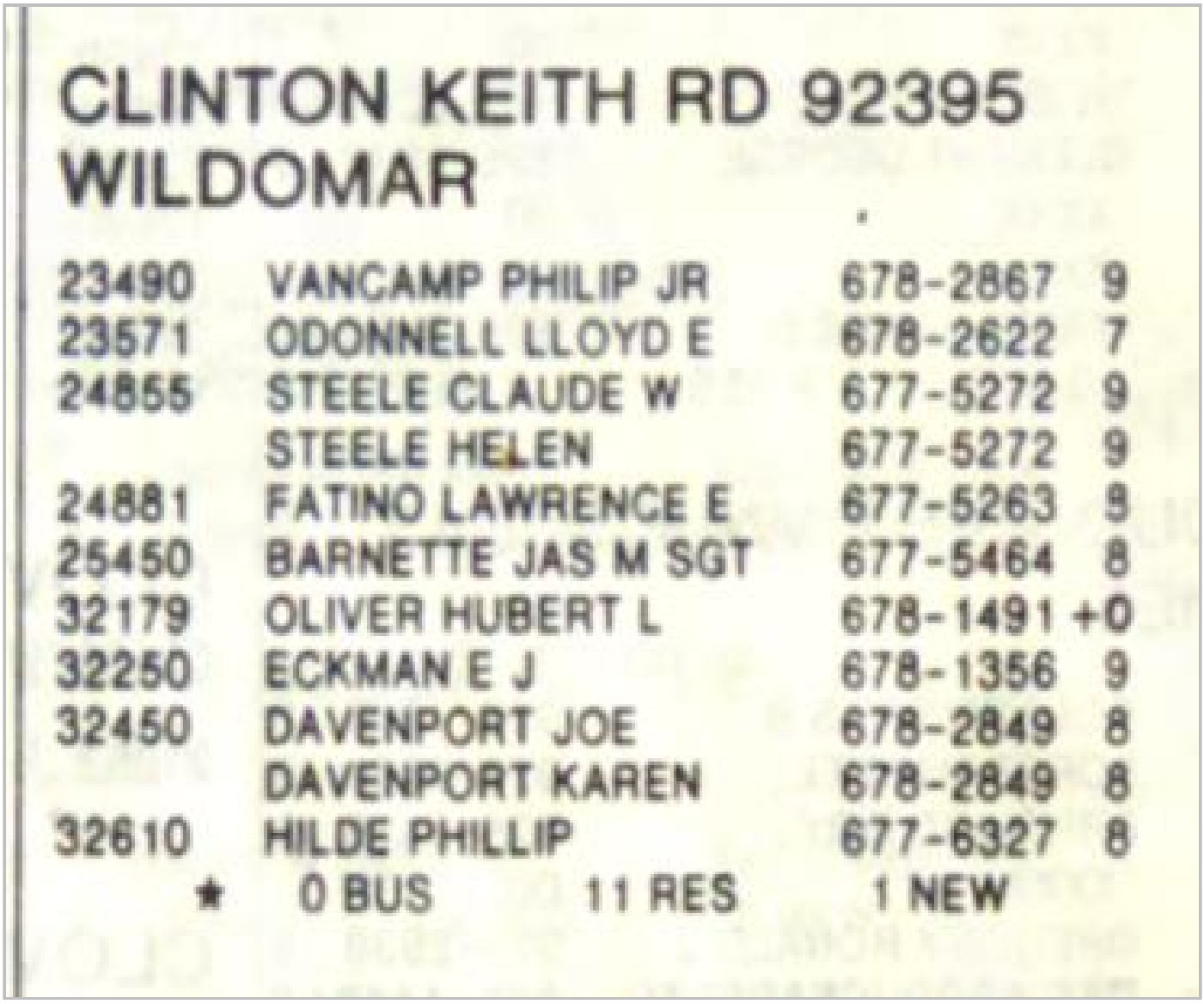
25670	GRIFFIN JESS H	657-3472	4
25740	OTT KENNY	657-6151	9
25754	KEARNS H DANL	657-1415	9
25764	TRUNK E F SR	657-6075	6
25766	ROBEY JAS	657-6594	+0
25855	XXXX	00	
25890★	**ROMOLAND SCHOOL**	**657-2461**	**+0**
★	3 BUS 24 RES	6 NEW	

ANTELOPE RD 92381 SUN CITY

32509	XXXX	00	
34010	SMITH A F	679-1064	+0
34150	MOREHOUSE G H	679-5218	+0
34270	XXXX	00	
34470	MEHAS TED	679-3208	8
34530	ALVAREZ JOHN	679-2980	+0
	RIZZO GEORGE	679-3142	9
34970	MGCRATH S A	679-2809	
35070	OGILVIE DARLENE	679-7801	+0
35085	XXXX	00	
35246	KLURE A SCOTT	679-6518	7
35501	BARNES ROBT K	679-5783	7
35530	XXXX	00	
35931	WESTBROOK RICHARD	679-1771	8
★	0 BUS 14 RES	4 NEW	

Target Street	Cross Street	Source
-	✓	Haines Criss-Cross Directory

CLINTON KEITH RD 1980



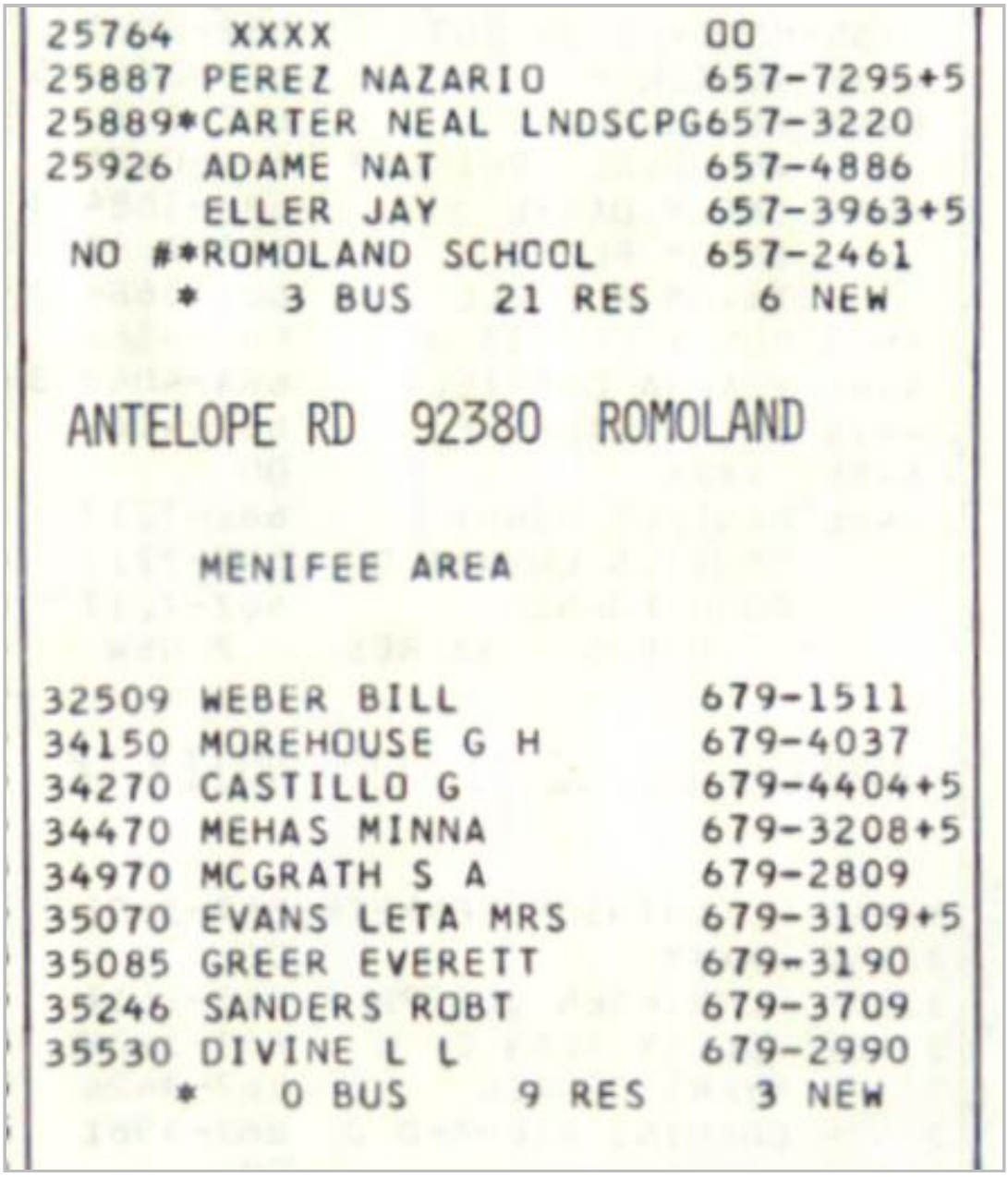
CLINTON KEITH RD 92395
WILDOMAR

23490	VANCAMP PHILIP JR	678-2867	9
23571	ODONNELL LLOYD E	678-2622	7
24855	STEELE CLAUDE W	677-5272	9
	STEELE HELEN	677-5272	9
24881	FATINO LAWRENCE E	677-5263	9
25450	BARNETTE JAS M SGT	677-5464	8
32179	OLIVER HUBERT L	678-1491	+0
32250	ECKMAN E J	678-1356	9
32450	DAVENPORT JOE	678-2849	8
	DAVENPORT KAREN	678-2849	8
32610	HILDE PHILLIP	677-6327	8

★ 0 BUS 11 RES 1 NEW

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

ANTELOPE RD 1975



```
25764  XXXX                    00
25887 PEREZ NAZARIO            657-7295+5
25889*CARTER NEAL LNDSCPG      657-3220
25926 ADAME NAT                657-4886
      ELLER JAY                657-3963+5
 NO #*ROMOLAND SCHOOL          657-2461
     *    3 BUS    21 RES      6 NEW

ANTELOPE RD  92380  ROMOLAND

      MENIFEE AREA

32509 WEBER BILL               679-1511
34150 MOREHOUSE G H            679-4037
34270 CASTILLO G               679-4404+5
34470 MEHAS MINNA              679-3208+5
34970 MCGRATH S A              679-2809
35070 EVANS LETA MRS           679-3109+5
35085 GREER EVERETT            679-3190
35246 SANDERS ROBT             679-3709
35530 DIVINE L L               679-2990
     *    0 BUS     9 RES      3 NEW
```

Appendix C

Regulatory Records Documentation (with EDR Database Searches)

CK-17 LP
Clinton Keith Road/Antelope Road
Murrieta, CA 92563

Inquiry Number: 5006353.2s
July 27, 2017

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

CLINTON KEITH ROAD/ANTELOPE ROAD
MURRIETA, CA 92563

COORDINATES

Latitude (North):	33.5999020 - 33° 35' 59.64''
Longitude (West):	117.1722140 - 117° 10' 19.97''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	484021.9
UTM Y (Meters):	3717615.5
Elevation:	1538 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5641304 MURRIETA, CA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140603
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
CLINTON KEITH ROAD/ANTELOPE ROAD
MURRIETA, CA 92563

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
1	NORTH COUNTY SAND &		US MINES	Higher	1028, 0.195, ENE
A2	CVS PHARMACY #17545	27818 CLINTON KEITH	RCRA-CESQG, FINDS, ECHO	Lower	1162, 0.220, WSW
A3	TARGET STORE T2499	27818 CLINTON KEITH	RCRA-SQG	Lower	1162, 0.220, WSW
4	WALGREENS #11475	27714 CLINTON KEITH	RCRA-CESQG	Lower	1265, 0.240, West
5	BAXTER ROAD ELEMENTA	BAXTER ROAD AND MEAD	ENVIROSTOR, SCH	Lower	4808, 0.911, NNE

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY ---------- Federal Facility Site Information listing
SEMS ---------- Superfund Enterprise Management System

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE ---------- Superfund Enterprise Management System Archive

Federal RCRA CORRACTS facilities list

CORRACTS ---------- Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG ---------- RCRA - Large Quantity Generators

Federal institutional controls / engineering controls registries

LUCIS ---------- Land Use Control Information System
US ENG CONTROLS ---------- Engineering Controls Sites List
US INST CONTROL ---------- Sites with Institutional Controls

Federal ERNS list

ERNS ---------- Emergency Response Notification System

State- and tribal - equivalent NPL

RESPONSE ---- State Response Sites

State and tribal landfill and/or solid waste disposal site lists

SWF/LF ---- Solid Waste Information System

State and tribal leaking storage tank lists

LUST ---- Geotracker's Leaking Underground Fuel Tank Report
INDIAN LUST ---- Leaking Underground Storage Tanks on Indian Land
SLIC ---- Statewide SLIC Cases

State and tribal registered storage tank lists

FEMA UST ---- Underground Storage Tank Listing
UST ---- Active UST Facilities
AST ---- Aboveground Petroleum Storage Tank Facilities
INDIAN UST ---- Underground Storage Tanks on Indian Land

State and tribal voluntary cleanup sites

INDIAN VCP ---- Voluntary Cleanup Priority Listing
VCP ---- Voluntary Cleanup Program Properties

State and tribal Brownfields sites

BROWNFIELDS ---- Considered Brownfieds Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ---- A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT ---- Waste Management Unit Database
SWRCY ---- Recycler Database
HAULERS ---- Registered Waste Tire Haulers Listing
INDIAN ODI ---- Report on the Status of Open Dumps on Indian Lands
DEBRIS REGION 9 ---- Torres Martinez Reservation Illegal Dump Site Locations
ODI ---- Open Dump Inventory
IHS OPEN DUMPS ---- Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL ---- Delisted National Clandestine Laboratory Register
HIST Cal-Sites ---- Historical Calsites Database
SCH ---- School Property Evaluation Program
CDL ---- Clandestine Drug Labs
Toxic Pits ---- Toxic Pits Cleanup Act Sites

US CDL ..... National Clandestine Laboratory Register

Local Lists of Registered Storage Tanks

SWEEPS UST ..... SWEEPS UST Listing
HIST UST ..... Hazardous Substance Storage Container Database
CA FID UST ..... Facility Inventory Database

Local Land Records

LIENS ..... Environmental Liens Listing
LIENS 2 ..... CERCLA Lien Information
DEED ..... Deed Restriction Listing

Records of Emergency Release Reports

HMIRS ..... Hazardous Materials Information Reporting System
CHMIRS ..... California Hazardous Material Incident Report System
LDS ..... Land Disposal Sites Listing
MCS ..... Military Cleanup Sites Listing
SPILLS 90 ..... SPILLS 90 data from FirstSearch

Other Ascertainable Records

RCRA NonGen / NLR ..... RCRA - Non Generators / No Longer Regulated
FUDS ..... Formerly Used Defense Sites
DOD ..... Department of Defense Sites
SCRD DRYCLEANERS ..... State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR ..... Financial Assurance Information
EPA WATCH LIST ..... EPA WATCH LIST
2020 COR ACTION ..... 2020 Corrective Action Program List
TSCA ..... Toxic Substances Control Act
TRIS ..... Toxic Chemical Release Inventory System
SSTS ..... Section 7 Tracking Systems
ROD ..... Records Of Decision
RMP ..... Risk Management Plans
RAATS ..... RCRA Administrative Action Tracking System
PRP ..... Potentially Responsible Parties
PADS ..... PCB Activity Database System
ICIS ..... Integrated Compliance Information System
FTTS ..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS ..... Material Licensing Tracking System
COAL ASH DOE ..... Steam-Electric Plant Operation Data
COAL ASH EPA ..... Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER ..... PCB Transformer Registration Database
RADINFO ..... Radiation Information Database
HIST FTTS ..... FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS ..... Incident and Accident Data
CONSENT ..... Superfund (CERCLA) Consent Decrees
INDIAN RESERV ..... Indian Reservations
FUSRAP ..... Formerly Utilized Sites Remedial Action Program
UMTRA ..... Uranium Mill Tailings Sites
LEAD SMELTERS ..... Lead Smelter Sites
US AIRS ..... Aerometric Information Retrieval System Facility Subsystem

EXECUTIVE SUMMARY

ABANDONED MINES - Abandoned Mines
FINDS - Facility Index System/Facility Registry System
UXO - Unexploded Ordnance Sites
ECHO - Enforcement & Compliance History Information
DOCKET HWC - Hazardous Waste Compliance Docket Listing
FUELS PROGRAM - EPA Fuels Program Registered Listing
CA BOND EXP. PLAN - Bond Expenditure Plan
Cortese - "Cortese" Hazardous Waste & Substances Sites List
CUPA Listings - CUPA Resources List
DRYCLEANERS - Cleaner Facilities
EMI - Emissions Inventory Data
ENF - Enforcement Action Listing
Financial Assurance - Financial Assurance Information Listing
HAZNET - Facility and Manifest Data
ICE - ICE
HIST CORTESE - Hazardous Waste & Substance Site List
HWP - EnviroStor Permitted Facilities Listing
HWT - Registered Hazardous Waste Transporter Database
MINES - Mines Site Location Listing
MWMP - Medical Waste Management Program Listing
NPDES - NPDES Permits Listing
PEST LIC - Pesticide Regulation Licenses Listing
PROC - Certified Processors Database
Notify 65 - Proposition 65 Records
UIC - UIC Listing
WASTEWATER PITS - Oil Wastewater Pits Listing
WDS - Waste Discharge System
WIP - Well Investigation Program Case List

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP - EDR Proprietary Manufactured Gas Plants
EDR Hist Auto - EDR Exclusive Historic Gas Stations
EDR Hist Cleaner - EDR Exclusive Historic Dry Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF - Recovered Government Archive Solid Waste Facilities List
RGA LUST - Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

EXECUTIVE SUMMARY

STANDARD ENVIRONMENTAL RECORDS

Federal RCRA generators list

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 12/12/2016 has revealed that there is 1 RCRA-SQG site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
TARGET STORE T2499	27818 CLINTON KEITH	WSW 1/8 - 1/4 (0.220 mi.)	A3	17

RCRA-CESQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

A review of the RCRA-CESQG list, as provided by EDR, and dated 12/12/2016 has revealed that there are 2 RCRA-CESQG sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
CVS PHARMACY #17545	***27818 CLINTON KEITH***	***WSW 1/8 - 1/4 (0.220 mi.)***	***A2***	***14***
WALGREENS #11475	27714 CLINTON KEITH	W 1/8 - 1/4 (0.240 mi.)	4	23

State- and tribal - equivalent CERCLIS

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 01/30/2017 has revealed that there is 1 ENVIROSTOR site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
BAXTER ROAD ELEMENTA	***BAXTER ROAD AND MEAD***	***NNE 1/2 - 1 (0.911 mi.)***	***5***	***25***
Facility Id: 70000071				

Status: No Action Required

ADDITIONAL ENVIRONMENTAL RECORDS

Other Ascertainable Records

US MINES: Mines Master Index File. The source of this database is the Dept. of Labor, Mine Safety and Health Administration.

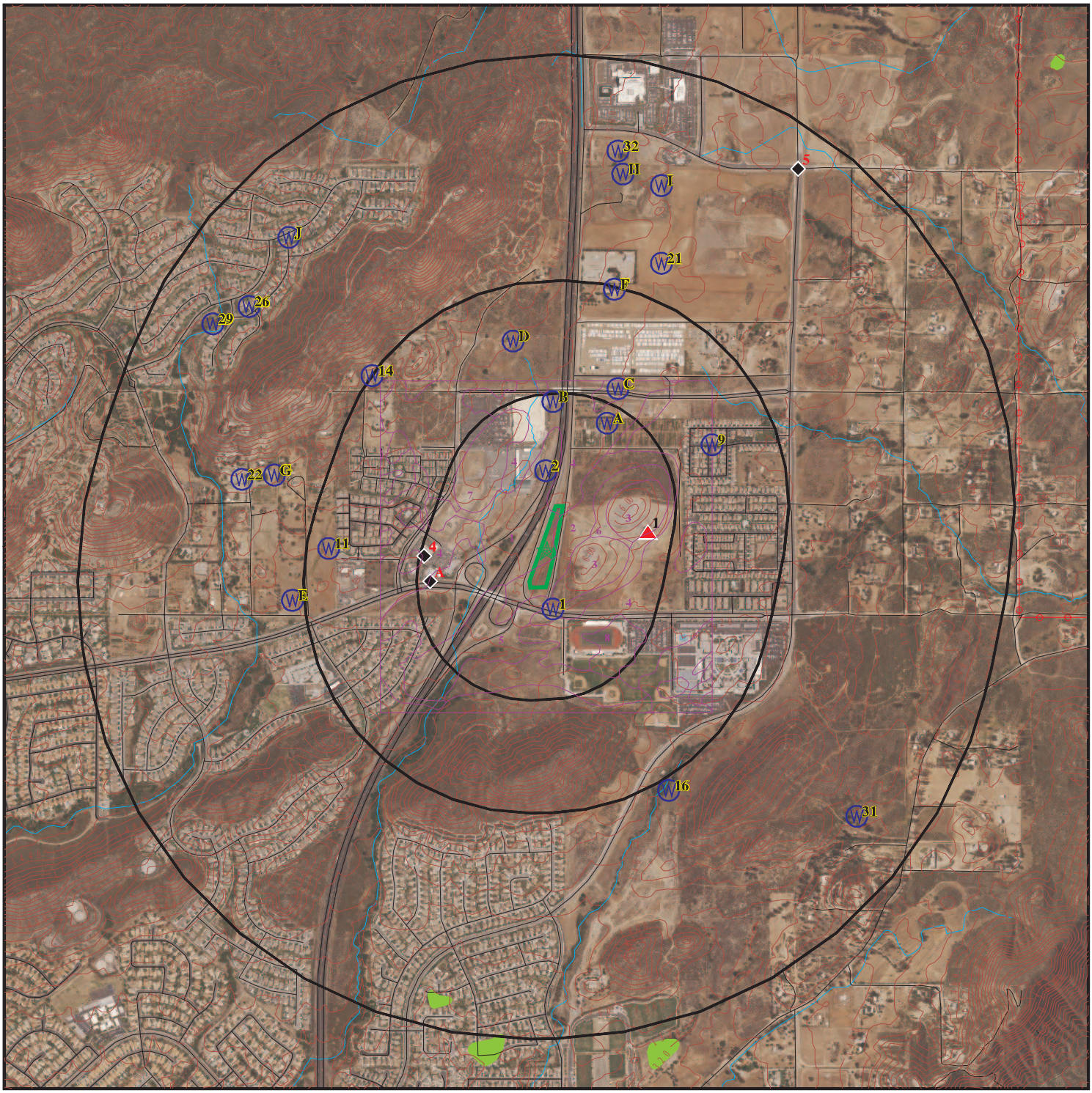
A review of the US MINES list, as provided by EDR, has revealed that there is 1 US MINES site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NORTH COUNTY SAND &		ENE 1/8 - 1/4 (0.195 mi.)	1	8
Database: US MINES, Date of Government Version: 02/08/2017				

EXECUTIVE SUMMARY

There were no unmapped sites in this report.

OVERVIEW MAP - 5006353.2S



0 1/4 1/2 1 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands
- Upgradient Area
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	CK-17 LP	CLIENT:	IWS Environmental
ADDRESS:	Clinton Keith Road/Antelope Road Murrieta CA 92563	CONTACT:	Jim Bunck
LAT/LONG:	33.599902 / 117.172214	INQUIRY #:	5006353.2s
		DATE:	July 27, 2017 8:07 pm

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DETAIL MAP - 5006353.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

Sensitive Receptors

National Priority List Sites

Dept. Defense Sites

Indian Reservations BIA

100-year flood zone

500-year flood zone

Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	CK-17 LP	CLIENT:	IWS Environmental
ADDRESS:	Clinton Keith Road/Antelope Road Murrieta CA 92563	CONTACT:	Jim Bunck
LAT/LONG:	33.599902 / 117.172214	INQUIRY #:	5006353.2s
		DATE:	July 27, 2017 8:08 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	0.001		0	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	1	NR	NR	NR	1
RCRA-CESQG	0.250		0	2	NR	NR	NR	2
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	0.001		0	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
RESPONSE	1.000		0	0	0	0	NR	0
State- and tribal - equivalent CERCLIS								
ENVIROSTOR	1.000		0	0	0	1	NR	1
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
LUST	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
SLIC	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	0.001		0	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	0	NR	NR	NR	0
CDL	0.001		0	NR	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250		0	0	NR	NR	NR	0
HIST UST	0.250		0	0	NR	NR	NR	0
CA FID UST	0.250		0	0	NR	NR	NR	0
Local Land Records								
LIENS	0.001		0	NR	NR	NR	NR	0
LIENS 2	0.001		0	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
CHMIRS	0.001		0	NR	NR	NR	NR	0
LDS	0.001		0	NR	NR	NR	NR	0
MCS	0.001		0	NR	NR	NR	NR	0
SPILLS 90	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	0.001		0	NR	NR	NR	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	1	NR	NR	NR	1
ABANDONED MINES	0.001		0	NR	NR	NR	NR	0
FINDS	0.001		0	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
ECHO	0.001		0	NR	NR	NR	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
Cortese	0.500		0	0	0	NR	NR	0
CUPA Listings	0.250		0	0	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
EMI	0.001		0	NR	NR	NR	NR	0
ENF	0.001		0	NR	NR	NR	NR	0
Financial Assurance	0.001		0	NR	NR	NR	NR	0
HAZNET	0.001		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
ICE	0.001		0	NR	NR	NR	NR	0
HIST CORTESE	0.500		0	0	0	NR	NR	0
HWP	1.000		0	0	0	0	NR	0
HWT	0.250		0	0	NR	NR	NR	0
MINES	0.001		0	NR	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	0.001		0	NR	NR	NR	NR	0
PEST LIC	0.001		0	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	0	0	NR	0
UIC	0.001		0	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	0.001		0	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	0.001		0	NR	NR	NR	NR	0
RGA LUST	0.001		0	NR	NR	NR	NR	0
- Totals --		0	0	4	0	1	0	5

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

1
ENE
1/8-1/4
0.195 mi.
1028 ft.

NORTH COUNTY SAND & GRAVEL INC
RIVERSIDE (County), CA

US MINES **1016469089**
N/A

Relative:
Higher

Actual:
1554 ft.

US MINES:

Mine ID:	0405609
SIC code(s):	144200 000000 000000 000000 000000 000000
Entity name:	FAB-TECH 09
Company:	NORTH COUNTY SAND & GRAVEL INC
Status:	1
Status date:	20170104
Operation Class:	non-Coal Mining
Number of shops:	0
Number of plants:	0
Latitude:	33 36 02
Longitude:	117 10 06

Violations Details:

Violation Number:	8788088
Date Issued:	11/16/2015
Mine Status:	Intermittent
Status Date:	04/13/2015
Action Type:	104(a)
Date Abated:	11/16/2015
Citation/Order:	Citation
Sig and Sub Designation:	N
Proposed Penalty:	100.00
Paid Penalty:	100.00
Assessment Status code:	Closed
Assess. Case Status code:	Proposed
Assessment Amount:	100.00
Year:	2015

Violation Number:	6399880
Date Issued:	11/15/2007
Mine Status:	Intermittent
Status Date:	04/13/2015
Action Type:	104(a)
Date Abated:	11/29/2007
Citation/Order:	Citation
Sig and Sub Designation:	N
Proposed Penalty:	100.00
Paid Penalty:	100.00
Assessment Status code:	Closed
Assess. Case Status code:	Proposed
Assessment Amount:	100.00
Year:	2007

Violation Number:	6399879
Date Issued:	11/15/2007
Mine Status:	Intermittent
Status Date:	04/13/2015
Action Type:	104(a)
Date Abated:	11/29/2007
Citation/Order:	Citation
Sig and Sub Designation:	N
Proposed Penalty:	100.00

NORTH COUNTY SAND & GRAVEL INC (Continued) **1016469089**

Paid Penalty: 100.00
Assessment Status code: Closed
Assess. Case Status code: Proposed
Assessment Amount: 100.00
Year: 2007

Violation Number: 6440058
Date Issued: 10/15/2008
Mine Status: Intermittent
Status Date: 04/13/2015
Action Type: 104(a)
Date Abated: 11/06/2008
Citation/Order: Citation
Sig and Sub Designation: N
Proposed Penalty: 100.00
Paid Penalty: 100.00
Assessment Status code: Closed
Assess. Case Status code: Proposed
Assessment Amount: 100.00
Year: 2008

Violation Number: 6440059
Date Issued: 10/15/2008
Mine Status: Intermittent
Status Date: 04/13/2015
Action Type: 104(a)
Date Abated: 10/16/2008
Citation/Order: Citation
Sig and Sub Designation: Y
Proposed Penalty: 100.00
Paid Penalty: 100.00
Assessment Status code: Closed
Assess. Case Status code: Proposed
Assessment Amount: 100.00
Year: 2008

Violation Number: 6440057
Date Issued: 10/15/2008
Mine Status: Intermittent
Status Date: 04/13/2015
Action Type: 104(a)
Date Abated: 10/15/2008
Citation/Order: Citation
Sig and Sub Designation: N
Proposed Penalty: 100.00
Paid Penalty: 100.00
Assessment Status code: Closed
Assess. Case Status code: Proposed
Assessment Amount: 100.00
Year: 2008

Violation Number: 6440060
Date Issued: 10/15/2008
Mine Status: Intermittent
Status Date: 04/13/2015
Action Type: 104(a)
Date Abated: 10/16/2008

NORTH COUNTY SAND & GRAVEL INC (Continued) **1016469089**

Citation/Order: Citation
Sig and Sub Designation: Y
Proposed Penalty: 108.00
Paid Penalty: 108.00
Assessment Status code: Closed
Assess. Case Status code: Proposed
Assessment Amount: 108.00
Year: 2008

Violation Number: 6440061
Date Issued: 10/15/2008
Mine Status: Intermittent
Status Date: 04/13/2015
Action Type: 104(a)
Date Abated: 11/03/2008
Citation/Order: Citation
Sig and Sub Designation: N
Proposed Penalty: 162.00
Paid Penalty: 162.00
Assessment Status code: Closed
Assess. Case Status code: Proposed
Assessment Amount: 162.00
Year: 2008

Violation Number: 6440056
Date Issued: 10/15/2008
Mine Status: Intermittent
Status Date: 04/13/2015
Action Type: 104(a)
Date Abated: 10/15/2008
Citation/Order: Citation
Sig and Sub Designation: Y
Proposed Penalty: 243.00
Paid Penalty: 243.00
Assessment Status code: Closed
Assess. Case Status code: Proposed
Assessment Amount: 243.00
Year: 2008

Violation Number: 6440667
Date Issued: 09/02/2008
Mine Status: Intermittent
Status Date: 04/13/2015
Action Type: 104(a)
Date Abated: 09/02/2008
Citation/Order: Citation
Sig and Sub Designation: N
Proposed Penalty: 100.00
Paid Penalty: 100.00
Assessment Status code: Closed
Assess. Case Status code: Proposed
Assessment Amount: 100.00
Year: 2008

Violation Number: 6440668
Date Issued: 09/02/2008
Mine Status: Intermittent

NORTH COUNTY SAND & GRAVEL INC (Continued) **1016469089**

Status Date:	04/13/2015
Action Type:	104(a)
Date Abated:	09/02/2008
Citation/Order:	Citation
Sig and Sub Designation:	N
Proposed Penalty:	100.00
Paid Penalty:	100.00
Assessment Status code:	Closed
Assess. Case Status code:	Proposed
Assessment Amount:	100.00
Year:	2008

Violation Number:	8689853
Date Issued:	07/30/2013
Mine Status:	Intermittent
Status Date:	04/13/2015
Action Type:	104(a)
Date Abated:	08/01/2013
Citation/Order:	Citation
Sig and Sub Designation:	N
Proposed Penalty:	100
Paid Penalty:	100
Assessment Status code:	Closed
Assess. Case Status code:	Proposed
Assessment Amount:	100
Year:	2013

Violation Number:	6361752
Date Issued:	07/19/2004
Mine Status:	Intermittent
Status Date:	04/13/2015
Action Type:	104(a)
Date Abated:	07/20/2004
Citation/Order:	Citation
Sig and Sub Designation:	N
Proposed Penalty:	60.00
Paid Penalty:	60.00
Assessment Status code:	Closed
Assess. Case Status code:	Proposed
Assessment Amount:	60.00
Year:	2004

Violation Number:	6361751
Date Issued:	07/19/2004
Mine Status:	Intermittent
Status Date:	04/13/2015
Action Type:	104(a)
Date Abated:	07/21/2004
Citation/Order:	Citation
Sig and Sub Designation:	N
Proposed Penalty:	60.00
Paid Penalty:	60.00
Assessment Status code:	Closed
Assess. Case Status code:	Proposed
Assessment Amount:	60.00
Year:	2004

NORTH COUNTY SAND & GRAVEL INC (Continued) **1016469089**

Violation Number: 6361750
Date Issued: 07/19/2004
Mine Status: Intermittent
Status Date: 04/13/2015
Action Type: 104(a)
Date Abated: 07/21/2004
Citation/Order: Citation
Sig and Sub Designation: N
Proposed Penalty: 60.00
Paid Penalty: 60.00
Assessment Status code: Closed
Assess. Case Status code: Proposed
Assessment Amount: 60.00
Year: 2004

Violation Number: 8607403
Date Issued: 07/11/2011
Mine Status: Intermittent
Status Date: 04/13/2015
Action Type: 104(a)
Date Abated: 07/11/2011
Citation/Order: Citation
Sig and Sub Designation: Y
Proposed Penalty: 634.00
Paid Penalty: 634.00
Assessment Status code: Closed
Assess. Case Status code: Proposed
Assessment Amount: 634.00
Year: 2011

Violation Number: 8607402
Date Issued: 07/11/2011
Mine Status: Intermittent
Status Date: 04/13/2015
Action Type: 104(a)
Date Abated: 07/11/2011
Citation/Order: Citation
Sig and Sub Designation: Y
Proposed Penalty: 634.00
Paid Penalty: 634.00
Assessment Status code: Closed
Assess. Case Status code: Proposed
Assessment Amount: 634.00
Year: 2011

Violation Number: 8781074
Date Issued: 05/29/2014
Mine Status: Intermittent
Status Date: 04/13/2015
Action Type: 104(a)
Date Abated: 05/29/2014
Citation/Order: Citation
Sig and Sub Designation: Y
Proposed Penalty: 108.00
Paid Penalty: 108.00
Assessment Status code: Closed
Assess. Case Status code: Proposed

NORTH COUNTY SAND & GRAVEL INC (Continued) **1016469089**

Assessment Amount:	108.00
Year:	2014
Violation Number:	8781070
Date Issued:	05/28/2014
Mine Status:	Intermittent
Status Date:	04/13/2015
Action Type:	104(a)
Date Abated:	05/29/2014
Citation/Order:	Citation
Sig and Sub Designation:	Y
Proposed Penalty:	243.00
Paid Penalty:	243.00
Assessment Status code:	Closed
Assess. Case Status code:	Proposed
Assessment Amount:	243.00
Year:	2014
Violation Number:	8781073
Date Issued:	05/28/2014
Mine Status:	Intermittent
Status Date:	04/13/2015
Action Type:	104(a)
Date Abated:	05/29/2014
Citation/Order:	Citation
Sig and Sub Designation:	N
Proposed Penalty:	162.00
Paid Penalty:	162.00
Assessment Status code:	Closed
Assess. Case Status code:	Proposed
Assessment Amount:	162.00
Year:	2014

NORTH COUNTY SAND & GRAVEL INC (Continued) **1016469089**

Click this hyperlink while viewing on your computer to access
38 additional US_MINES: record(s) in the EDR Site Report.

A2 **CVS PHARMACY #17545** **RCRA-CESQG** **1018273955**
WSW **27818 CLINTON KEITH RD SUITE B** **FINDS** **CAR000261685**
1/8-1/4 **MURRIETA, CA 92562** **ECHO**
0.220 mi.
1162 ft. **Site 1 of 2 in cluster A**

Relative:
Lower

Actual:
1522 ft.

RCRA-CESQG:

Date form received by agency:	03/29/2016
Facility name:	CVS PHARMACY #17545
Facility address:	27818 CLINTON KEITH RD SUITE B MURRIETA, CA 92562
EPA ID:	CAR000261685
Mailing address:	ONE CVS DRIVE WOONSOCKET, RI 02895
Contact:	NICOLE WILKINSON
Contact address:	ONE CVS DRIVE MAIL CODE 2340 WOONSOCKET, RI 02895
Contact country:	US
Contact telephone:	(401) 770-7132
Contact email:	NICOLE.WILKINSON@CVSHEALTH.COM
EPA Region:	09
Classification:	Conditionally Exempt Small Quantity Generator
Description:	Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name:	TARGET CORPORATION
Owner/operator address:	Not reported Not reported
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	07/22/2009
Owner/Op end date:	Not reported
Owner/operator name:	GARFIELD BEACH CVS, LLC
Owner/operator address:	Not reported Not reported
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private

CVS PHARMACY #17545 (Continued) **1018273955**

Owner/Operator Type: Operator
Owner/Op start date: 12/16/2015
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: 122
. Waste name: 122

. Waste code: 123
. Waste name: 123

. Waste code: 134
. Waste name: 134

. Waste code: 141
. Waste name: 141

. Waste code: 181
. Waste name: 181

. Waste code: 214
. Waste name: 214

. Waste code: 311
. Waste name: 311

. Waste code: 331
. Waste name: 331

. Waste code: 352
. Waste name: 352

. Waste code: 541
. Waste name: 541

. Waste code: 561
. Waste name: 561

. Waste code: 791
. Waste name: 791

CVS PHARMACY #17545 (Continued) **1018273955**

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D009
. Waste name: MERCURY

. Waste code: D010
. Waste name: SELENIUM

. Waste code: D011
. Waste name: SILVER

. Waste code: D024
. Waste name: M-CRESOL

. Waste code: P001
. Waste name: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3% (OR) WARFARIN, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

. Waste code: U034
. Waste name: ACETALDEHYDE, TRICHLORO- (OR) CHLORAL

. Waste code: U044
. Waste name: CHLOROFORM (OR) METHANE, TRICHLORO-

. Waste code: U122
. Waste name: FORMALDEHYDE

. Waste code: U129
. Waste name: CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-, (1ALPHA, 2ALPHA, 3BETA, 4ALPHA, 5ALPHA, 6BETA)- (OR) LINDANE

. Waste code: U188
. Waste name: PHENOL

. Waste code: U201
. Waste name: 1,3-BENZENEDIOL (OR) RESORCINOL

. Waste code: U205
. Waste name: SELENIUM SULFIDE (OR) SELENIUM SULFIDE SES2 (R,T)

Violation Status: No violations found

FINDS:

Registry ID: 110067712835

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport,

CVS PHARMACY #17545 (Continued) **1018273955**

and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1018273955
Registry ID:	110067712835
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110067712835

A3 **TARGET STORE T2499** **RCRA-SQG** **1014465414**
WSW **27818 CLINTON KEITH RD** **CAR000218842**
1/8-1/4 **MURRIETA, CA 92562**
0.220 mi.
1162 ft. **Site 2 of 2 in cluster A**

Relative:
Lower

Actual:
1522 ft.

RCRA-SQG:

Date form received by agency:	02/19/2016
Facility name:	TARGET STORE T2499
Facility address:	27818 CLINTON KEITH RD MURRIETA, CA 92562
EPA ID:	CAR000218842
Mailing address:	PO BOX 111 MINNEAPOLIS, MN 55440
Contact:	STEVE MUSSER
Contact address:	PO BOX 111 MINNEAPOLIS, MN 55440
Contact country:	US
Contact telephone:	(800) 587-2228
Contact email:	POC@TARGET.COM
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	TARGET CORPORATION
Owner/operator address:	Not reported Not reported
Owner/operator country:	Not reported
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	07/22/2009
Owner/Op end date:	Not reported
Owner/operator name:	TARGET CORPORATION
Owner/operator address:	PO BOX 111 MINNEAPOLIS, MN 55440
Owner/operator country:	US
Owner/operator telephone:	(800) 587-2228

TARGET STORE T2499 (Continued) **1014465414**

Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 07/22/2009
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D004
. Waste name: ARSENIC

. Waste code: D005
. Waste name: BARIUM

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D010
. Waste name: SELENIUM

. Waste code: D011
. Waste name: SILVER

. Waste code: D016
. Waste name: 2,4-D (2,4-DICHLOROPHENOXYACETIC ACID)

. Waste code: D018
. Waste name: BENZENE

TARGET STORE T2499 (Continued) **1014465414**

. Waste code: D024
. Waste name: M-CRESOL

. Waste code: D026
. Waste name: CRESOL

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: P001
. Waste name: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3% (OR) WARFARIN, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

. Waste code: P042
. Waste name: 1,2-BENZENEDIOL, 4-[1-HYDROXY-2-(METHYLAMINO)ETHYL]-, (R)- (OR) EPINEPHRINE

. Waste code: P075
. Waste name: NICOTINE, & SALTS (OR) PYRIDINE, 3-(1-METHYL-2-PYRROLIDINYL)-,(S)-, & SALTS

. Waste code: P081
. Waste name: 1,2,3-PROPANETRIOL, TRINITRATE (R) (OR) NITROGLYCERINE (R)

. Waste code: U002
. Waste name: 2-PROPANONE (I) (OR) ACETONE (I)

. Waste code: U034
. Waste name: ACETALDEHYDE, TRICHLORO- (OR) CHLORAL

. Waste code: U035
. Waste name: BENZENEBUTANOIC ACID, 4-[BIS(2-CHLOROETHYL)AMINO]- (OR) CHLORAMBUCIL

. Waste code: U044
. Waste name: CHLOROFORM (OR) METHANE, TRICHLORO-

. Waste code: U058
. Waste name: 2H-1,3,2-OXAZAPHOSPHORIN-2-AMINE, N,N-BIS(2-CHLOROETHYL)TETRAHYDRO-, 2-OXIDE (OR) CYCLOPHOSPHAMIDE

. Waste code: U072
. Waste name: BENZENE, 1,4-DICHLORO- (OR) P-DICHLOROBENZENE

. Waste code: U122
. Waste name: FORMALDEHYDE

. Waste code: U129
. Waste name: CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-, (1ALPHA, 2ALPHA, 3BETA, 4ALPHA, 5ALPHA, 6BETA)- (OR) LINDANE

. Waste code: U150
. Waste name: L-PHENYLALANINE, 4-[BIS(2-CHLOROETHYL)AMINO]- (OR) MELPHALAN

. Waste code: U154
. Waste name: METHANOL (I) (OR) METHYL ALCOHOL (I)

TARGET STORE T2499 (Continued) **1014465414**

. Waste code: U188
. Waste name: PHENOL

. Waste code: U200
. Waste name: RESERPINE (OR) YOHIMBAN-16-CARBOXYLIC ACID, 11,17-DIMETHOXY-18-[(3,4,5-TRIMETHOXYBENZOYL)OXY]-, METHYL ESTER, (3BETA, 16BETA, 17ALPHA, 18BETA, 20ALPHA)-

. Waste code: U201
. Waste name: 1,3-BENZENEDIOL (OR) RESORCINOL

. Waste code: U279
. Waste name: CARBARYL (OR) 1-NAPHTHALENOL, METHYLCARBAMATE

Historical Generators:
Date form received by agency: 03/01/2014
Site name: TARGET STORE T2499
Classification: Small Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D003
. Waste name: REACTIVE WASTE

. Waste code: D004
. Waste name: ARSENIC

. Waste code: D005
. Waste name: BARIUM

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D010
. Waste name: SELENIUM

. Waste code: D011
. Waste name: SILVER

. Waste code: D016
. Waste name: 2,4-D (2,4-DICHLOROPHENOXYACETIC ACID)

. Waste code: D018
. Waste name: BENZENE

TARGET STORE T2499 (Continued) **1014465414**

. Waste code: D024
. Waste name: M-CRESOL

. Waste code: D026
. Waste name: CRESOL

. Waste code: D028
. Waste name: 1,2-DICHLOROETHANE

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: P001
. Waste name: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3% (OR) WARFARIN, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

. Waste code: P042
. Waste name: 1,2-BENZENEDIOL, 4-[1-HYDROXY-2-(METHYLAMINO)ETHYL]-, (R)- (OR) EPINEPHRINE

. Waste code: P075
. Waste name: NICOTINE, & SALTS (OR) PYRIDINE, 3-(1-METHYL-2-PYRROLIDINYL)-,(S)-, & SALTS

. Waste code: P081
. Waste name: 1,2,3-PROPANETRIOL, TRINITRATE (R) (OR) NITROGLYCERINE (R)

. Waste code: U002
. Waste name: 2-PROPANONE (I) (OR) ACETONE (I)

. Waste code: U034
. Waste name: ACETALDEHYDE, TRICHLORO- (OR) CHLORAL

. Waste code: U035
. Waste name: BENZENEBUTANOIC ACID, 4-[BIS(2-CHLOROETHYL)AMINO]- (OR) CHLORAMBUCIL

. Waste code: U044
. Waste name: CHLOROFORM (OR) METHANE, TRICHLORO-

. Waste code: U058
. Waste name: 2H-1,3,2-OXAZAPHOSPHORIN-2-AMINE, N,N-BIS(2-CHLOROETHYL)TETRAHYDRO-, 2-OXIDE (OR) CYCLOPHOSPHAMIDE

. Waste code: U072
. Waste name: BENZENE, 1,4-DICHLORO- (OR) P-DICHLOROBENZENE

. Waste code: U122
. Waste name: FORMALDEHYDE

. Waste code: U129
. Waste name: CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-, (1ALPHA, 2ALPHA, 3BETA, 4ALPHA, 5ALPHA, 6BETA)- (OR) LINDANE

. Waste code: U150
. Waste name: L-PHENYLALANINE, 4-[BIS(2-CHLOROETHYL)AMINO]- (OR) MELPHALAN

TARGET STORE T2499 (Continued) **1014465414**

. Waste code: U154
. Waste name: METHANOL (I) (OR) METHYL ALCOHOL (I)

. Waste code: U188
. Waste name: PHENOL

. Waste code: U200
. Waste name: RESERPINE (OR) YOHIMBAN-16-CARBOXYLIC ACID, 11,17-DIMETHOXY-18-[(3,4,5-TRIMETHOXYBENZOYL)OXY]-, METHYL ESTER, (3BETA, 16BETA, 17ALPHA, 18BETA, 20ALPHA)-

. Waste code: U201
. Waste name: 1,3-BENZENEDIOL (OR) RESORCINOL

. Waste code: U279
. Waste name: CARBARYL (OR) 1-NAPHTHALENOL, METHYLCARBAMATE

Date form received by agency: 04/11/2011
Site name: TARGET STORE NO 2499
Classification: Small Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D005
. Waste name: BARIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D011
. Waste name: SILVER

. Waste code: D016
. Waste name: 2,4-D (2,4-DICHLOROPHENOXYACETIC ACID)

. Waste code: P001
. Waste name: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3% (OR) WARFARIN, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

. Waste code: P046
. Waste name: ALPHA,ALPHA-DIMETHYLPHENETHYLAMINE (OR) BENZENEETHANAMINE, ALPHA, ALPHA-DIMETHYL-

. Waste code: P075
. Waste name: NICOTINE, & SALTS (OR) PYRIDINE, 3-(1-METHYL-2-PYRROLIDINYL)-,(S)-, & SALTS

Violation Status: No violations found

4
West
1/8-1/4
0.240 mi.
1265 ft.

WALGREENS #11475
27714 CLINTON KEITH RD
MURRIETA, CA 92562

RCRA-CESQG

1016954586
CAL000348456

Relative:
Lower

Actual:
1520 ft.

RCRA-CESQG:

Date form received by agency:	06/09/2014
Facility name:	WALGREENS #11475
Facility address:	27714 CLINTON KEITH RD MURRIETA, CA 92562
EPA ID:	CAL000348456
Mailing address:	GREY HAWK CT, STE 200 CARLSBAD, CA 92010
Contact:	KARINA E ROMERO
Contact address:	N LAKE AVE PASADENA, CA 91101
Contact country:	Not reported
Contact telephone:	(760) 602-8887
Contact email:	KROMERO@3ECOMPANY.COM
EPA Region:	09
Classification:	Conditionally Exempt Small Quantity Generator
Description:	Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name:	WALGREEN CO
Owner/operator address:	Not reported Not reported
Owner/operator country:	Not reported
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	05/20/2010
Owner/Op end date:	Not reported

Owner/operator name:	GARNER FAMILY LLC
Owner/operator address:	CARLSBAD BLVD CARLSBAD, CA 92008
Owner/operator country:	Not reported
Owner/operator telephone:	(858) 720-0166
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	05/20/2010
Owner/Op end date:	Not reported

WALGREENS #11475 (Continued) **1016954586**

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D009
. Waste name: MERCURY

. Waste code: D010
. Waste name: SELENIUM

. Waste code: D024
. Waste name: M-CRESOL

. Waste code: P001
. Waste name: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3% (OR) WARFARIN, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

. Waste code: P075
. Waste name: NICOTINE, & SALTS (OR) PYRIDINE, 3-(1-METHYL-2-PYRROLIDINYL)-,(S)-, & SALTS

. Waste code: U034
. Waste name: ACETALDEHYDE, TRICHLORO- (OR) CHLORAL

. Waste code: U165
. Waste name: NAPHTHALENE

Violation Status: No violations found

5
NNE
1/2-1
0.911 mi.
4808 ft.

BAXTER ROAD ELEMENTARY SCHOOL NO. 10
BAXTER ROAD AND MEADOWLARK LANE
MURRIETA, CA 92563

ENVIROSTOR
SCH

S118757363
N/A

Relative:
Lower

Actual:
1510 ft.

ENVIROSTOR:

Facility ID:	70000071
Status:	No Action Required
Status Date:	11/17/2005
Site Code:	404656
Site Type:	School Investigation
Site Type Detailed:	School
Acres:	12.06
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Angela Garcia
Supervisor:	Shahir Haddad
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	67
Senate:	28
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	School District
Latitude:	33.61383
Longitude:	-117.1604
APN:	NONE SPECIFIED
Past Use:	NONE
Potential COC:	NONE SPECIFIED No Contaminants found
Confirmed COC:	NONE SPECIFIED
Potential Description:	NMA
Alias Name:	404656
Alias Type:	Project Code (Site Code)
Alias Name:	70000071
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Phase 1
Completed Date:	11/01/2005
Comments:	Based on the Site visit on October 28, 2005 and the information presented inthe Phase I report. DTSC concurred with No Further Action. Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	11/16/2005
Comments:	CRU Memo completed
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported

BAXTER ROAD ELEMENTARY SCHOOL NO. 10 (Continued) **S118757363**

Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SCH:

Facility ID: 70000071
Site Type: School Investigation
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 12.06
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Angela Garcia
Supervisor: Shahir Haddad
Division Branch: Southern California Schools & Brownfields Outreach
Site Code: 404656
Assembly: 67
Senate: 28
Special Program Status: Not reported
Status: No Action Required
Status Date: 11/17/2005
Restricted Use: NO
Funding: School District
Latitude: 33.61383
Longitude: -117.1604
APN: NONE SPECIFIED
Past Use: NONE
Potential COC: NONE SPECIFIED, No Contaminants found
Confirmed COC: NONE SPECIFIED
Potential Description: NMA
Alias Name: 404656
Alias Type: Project Code (Site Code)
Alias Name: 70000071
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 11/01/2005
Comments: Based on the Site visit on October 28, 2005 and the information presented inthe Phase I report. DTSC concurred with No Further Action.
Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 11/16/2005
Comments: CRU Memo completed

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported

BAXTER ROAD ELEMENTARY SCHOOL NO. 10 (Continued) **S118757363**

Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

Count: 0 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
		NO SITES FOUND			

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 04/05/2017
Date Data Arrived at EDR: 04/21/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 21

Source: EPA
Telephone: N/A
Last EDR Contact: 07/07/2017
Next Scheduled EDR Contact: 10/16/2017
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 04/05/2017
Date Data Arrived at EDR: 04/21/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 21

Source: EPA
Telephone: N/A
Last EDR Contact: 07/07/2017
Next Scheduled EDR Contact: 10/16/2017
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 04/05/2017
Date Data Arrived at EDR: 04/21/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 21

Source: EPA
Telephone: N/A
Last EDR Contact: 07/07/2017
Next Scheduled EDR Contact: 10/16/2017
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 11/07/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 92

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 07/07/2017
Next Scheduled EDR Contact: 10/16/2017
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 02/07/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 16

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 07/21/2017
Next Scheduled EDR Contact: 10/30/2017
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 02/07/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 16

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/08/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/29/2017
Next Scheduled EDR Contact: 10/09/2017
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/29/2017
Next Scheduled EDR Contact: 10/09/2017
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/29/2017
Next Scheduled EDR Contact: 10/09/2017
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/29/2017
Next Scheduled EDR Contact: 10/09/2017
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/29/2017
Next Scheduled EDR Contact: 10/09/2017
Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/28/2016
Date Data Arrived at EDR: 01/04/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 93

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 05/15/2017
Next Scheduled EDR Contact: 08/28/2017
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 02/13/2017
Date Data Arrived at EDR: 02/28/2017
Date Made Active in Reports: 06/09/2017
Number of Days to Update: 101

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/31/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 02/13/2017
Date Data Arrived at EDR: 02/28/2017
Date Made Active in Reports: 06/09/2017
Number of Days to Update: 101

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/31/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 09/26/2016
Date Data Arrived at EDR: 09/29/2016
Date Made Active in Reports: 11/11/2016
Number of Days to Update: 43

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 06/28/2017
Next Scheduled EDR Contact: 10/09/2017
Data Release Frequency: Annually

State- and tribal - equivalent NPL

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 01/30/2017
Date Data Arrived at EDR: 01/31/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 112

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 01/30/2017
Date Data Arrived at EDR: 01/31/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 112

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 02/13/2017
Date Data Arrived at EDR: 02/15/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 76

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 05/17/2017
Next Scheduled EDR Contact: 08/28/2017
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)
Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/13/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 49
Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 06/14/2017
Next Scheduled EDR Contact: 09/25/2017
Data Release Frequency: Quarterly

LUST REG 6V: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22
Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List
Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35
Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14
Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List
Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30
Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

LUST REG 1: Active Toxic Site Investigation
Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29
Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing
For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST REG 7: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Varies

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 11/14/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 10/14/2016
Date Data Arrived at EDR: 01/27/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 98

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Semi-Annually

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 10/07/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 10/06/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 10/01/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 11/14/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/17/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 09/01/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

SLIC: Statewide SLIC Cases (GEOTRACKER)
Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/13/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 49
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/14/2017
Next Scheduled EDR Contact: 09/25/2017
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Semi-Annually

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35
Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36
Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11
Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17
Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: Annually

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55
Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 07/14/2017
Next Scheduled EDR Contact: 10/23/2017
Data Release Frequency: Varies

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 03/12/2017
Date Data Arrived at EDR: 03/16/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 57
Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 06/14/2017
Next Scheduled EDR Contact: 09/25/2017
Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tank Facilities
A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69
Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 06/21/2017
Next Scheduled EDR Contact: 10/09/2017
Data Release Frequency: Quarterly

INDIAN UST R5: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 01/14/2017
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 10/01/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Semi-Annually

INDIAN UST R7: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 09/01/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 10/17/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 10/06/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 11/14/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 10/14/2016
Date Data Arrived at EDR: 01/27/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 98

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Semi-Annually

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 10/07/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 06/27/2017
Next Scheduled EDR Contact: 10/09/2017
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 01/30/2017
Date Data Arrived at EDR: 01/31/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 112

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Quarterly

State and tribal Brownfields sites

BROWNFIELDS: Considered Brownfieds Sites Listing
A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 01/03/2017
Date Data Arrived at EDR: 01/04/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 57
Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 06/28/2017
Next Scheduled EDR Contact: 10/09/2017
Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 03/02/2017
Date Data Arrived at EDR: 03/02/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 36
Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 06/20/2017
Next Scheduled EDR Contact: 10/02/2017
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database
Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30
Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: No Update Planned

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 03/13/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 50
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 06/14/2017
Next Scheduled EDR Contact: 09/25/2017
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

Date of Government Version: 01/13/2017
Date Data Arrived at EDR: 01/17/2017
Date Made Active in Reports: 05/31/2017
Number of Days to Update: 134
Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 05/15/2017
Next Scheduled EDR Contact: 08/28/2017
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52
Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 05/01/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Varies

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39
Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137
Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 07/24/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land
A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176
Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register
A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 02/09/2017
Date Data Arrived at EDR: 03/08/2017
Date Made Active in Reports: 06/09/2017
Number of Days to Update: 93
Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/28/2017
Next Scheduled EDR Contact: 06/12/2017
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database
The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 01/30/2017
Date Data Arrived at EDR: 01/31/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 112

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 03/17/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 54

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 07/14/2017
Next Scheduled EDR Contact: 10/23/2017
Data Release Frequency: Varies

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 02/09/2017
Date Data Arrived at EDR: 03/08/2017
Date Made Active in Reports: 06/09/2017
Number of Days to Update: 93

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/31/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: Quarterly

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

UST MENDOCINO: Mendocino County UST Database
A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 03/09/2017
Date Data Arrived at EDR: 03/17/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 67

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: Annually

HIST UST: Hazardous Substance Storage Container Database
The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CA FID UST: Facility Inventory Database
The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Local Land Records

LIENS: Environmental Liens Listing
A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 03/06/2017
Date Data Arrived at EDR: 03/07/2017
Date Made Active in Reports: 04/21/2017
Number of Days to Update: 45

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information
A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/18/2014
Date Data Arrived at EDR: 03/18/2014
Date Made Active in Reports: 04/24/2014
Number of Days to Update: 37

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 07/26/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Varies

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 03/06/2017
Date Data Arrived at EDR: 03/07/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 77

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 06/06/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/28/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 37

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 06/28/2017
Next Scheduled EDR Contact: 10/09/2017
Data Release Frequency: Annually

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 12/06/2016
Date Data Arrived at EDR: 01/25/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 105

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 07/26/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Varies

LDS: Land Disposal Sites Listing (GEOTRACKER)

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/13/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 49

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/14/2017
Next Scheduled EDR Contact: 09/25/2017
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)

Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/13/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 49

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/14/2017
Next Scheduled EDR Contact: 09/25/2017
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/29/2017
Next Scheduled EDR Contact: 10/09/2017
Data Release Frequency: Varies

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015
Date Data Arrived at EDR: 07/08/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 97

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 02/24/2017
Next Scheduled EDR Contact: 06/05/2017
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 07/12/2017
Next Scheduled EDR Contact: 10/23/2017
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 07/14/2017
Next Scheduled EDR Contact: 10/23/2017
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63
Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 05/19/2017
Next Scheduled EDR Contact: 08/28/2017
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 02/13/2017
Date Data Arrived at EDR: 02/15/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 86
Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 05/17/2017
Next Scheduled EDR Contact: 08/28/2017
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88
Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 05/08/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 04/22/2013
Date Data Arrived at EDR: 03/03/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 6
Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 01/15/2015
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 14
Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 06/21/2017
Next Scheduled EDR Contact: 10/02/2017
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 11/24/2015
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 133

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 05/26/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 04/26/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 11/25/2013
Date Data Arrived at EDR: 12/12/2013
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 74

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 06/09/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 02/01/2017
Date Data Arrived at EDR: 02/09/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 07/24/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 10/17/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 3
Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 06/06/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

PADS: PCB Activity Database System
PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 01/20/2016
Date Data Arrived at EDR: 04/28/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 127
Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System
The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 07/24/2017
Next Scheduled EDR Contact: 10/23/2017
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 05/19/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 05/19/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Quarterly

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/30/2016
Date Data Arrived at EDR: 09/08/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 43
Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 05/08/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76
Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 06/05/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 06/05/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 83
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 01/04/2017
Date Data Arrived at EDR: 01/06/2017
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 35
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 07/12/2017
Next Scheduled EDR Contact: 10/16/2017
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 09/30/2016
Date Data Arrived at EDR: 11/18/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 77

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 06/21/2017
Next Scheduled EDR Contact: 10/09/2017
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 02/24/2015
Date Made Active in Reports: 09/30/2015
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 05/26/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 07/11/2017
Next Scheduled EDR Contact: 10/23/2017
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 12/23/2016
Date Data Arrived at EDR: 12/27/2016
Date Made Active in Reports: 02/17/2017
Number of Days to Update: 52

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 12/05/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 36

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 07/07/2017
Next Scheduled EDR Contact: 10/16/2017
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 06/21/2017
Next Scheduled EDR Contact: 10/09/2017
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 06/21/2017
Next Scheduled EDR Contact: 10/09/2017
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/08/2017
Date Data Arrived at EDR: 02/28/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 38

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 05/31/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/31/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 03/14/2017
Date Data Arrived at EDR: 03/17/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 21

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 06/09/2017
Next Scheduled EDR Contact: 09/25/2017
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 04/04/2017
Date Data Arrived at EDR: 04/07/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 35

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 06/07/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Quarterly

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 03/19/2017
Date Data Arrived at EDR: 03/21/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 06/07/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 10/25/2015
Date Data Arrived at EDR: 01/29/2016
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 67

Source: Department of Defense
Telephone: 571-373-0407
Last EDR Contact: 07/17/2017
Next Scheduled EDR Contact: 10/30/2017
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DOCKET HWC: Hazardous Waste Compliance Docket Listing
A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 06/02/2016
Date Data Arrived at EDR: 06/03/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 91
Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing
This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 02/22/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 79
Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Quarterly

CA BOND EXP. PLAN: Bond Expenditure Plan
Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6
Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List
The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 12/28/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 64
Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 06/28/2017
Next Scheduled EDR Contact: 10/09/2017
Data Release Frequency: Quarterly

DRYCLEANERS: Cleaner Facilities
A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 03/09/2017
Date Data Arrived at EDR: 04/11/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 42
Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 07/13/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Annually

EMI: Emissions Inventory Data
Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 09/23/2016
Date Made Active in Reports: 10/24/2016
Number of Days to Update: 31
Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 06/23/2017
Next Scheduled EDR Contact: 10/02/2017
Data Release Frequency: Varies

ENF: Enforcement Action Listing

A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 01/23/2017
Date Data Arrived at EDR: 01/27/2017
Date Made Active in Reports: 05/25/2017
Number of Days to Update: 118

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 07/19/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 04/25/2016
Date Data Arrived at EDR: 04/29/2016
Date Made Active in Reports: 06/21/2016
Number of Days to Update: 53

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 07/21/2017
Next Scheduled EDR Contact: 10/30/2017
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 02/14/2017
Date Data Arrived at EDR: 02/17/2017
Date Made Active in Reports: 05/25/2017
Number of Days to Update: 97

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 05/15/2017
Next Scheduled EDR Contact: 08/28/2017
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 10/12/2016
Date Made Active in Reports: 12/15/2016
Number of Days to Update: 64

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 07/12/2017
Next Scheduled EDR Contact: 10/23/2017
Data Release Frequency: Annually

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 11/21/2016
Date Data Arrived at EDR: 11/22/2016
Date Made Active in Reports: 01/23/2017
Number of Days to Update: 62

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing
Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 11/21/2016
Date Data Arrived at EDR: 11/22/2016
Date Made Active in Reports: 01/23/2017
Number of Days to Update: 62
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database
A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 04/11/2017
Date Data Arrived at EDR: 04/13/2017
Date Made Active in Reports: 04/26/2017
Number of Days to Update: 13
Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 07/12/2017
Next Scheduled EDR Contact: 10/23/2017
Data Release Frequency: Quarterly

MINES: Mines Site Location Listing
A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 09/12/2016
Date Data Arrived at EDR: 09/14/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 30
Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 06/14/2017
Next Scheduled EDR Contact: 09/25/2017
Data Release Frequency: Varies

MWMP: Medical Waste Management Program Listing
The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 12/02/2016
Date Data Arrived at EDR: 12/06/2016
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 86
Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 06/06/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 11/14/2016
Date Data Arrived at EDR: 11/15/2016
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 107
Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 05/17/2017
Next Scheduled EDR Contact: 08/28/2017
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing
A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 12/06/2016
Date Data Arrived at EDR: 12/06/2016
Date Made Active in Reports: 03/03/2017
Number of Days to Update: 87
Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 06/07/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 03/13/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 50
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 06/14/2017
Next Scheduled EDR Contact: 09/25/2017
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records
Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 12/16/2016
Date Data Arrived at EDR: 12/22/2016
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 70
Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 06/16/2017
Next Scheduled EDR Contact: 10/02/2017
Data Release Frequency: No Update Planned

UIC: UIC Listing
A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 01/20/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 50
Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 06/14/2017
Next Scheduled EDR Contact: 09/25/2017
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing
Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water board?s review found that more than one-third of the region?s active disposal pits are operating without permission.

Date of Government Version: 04/15/2015
Date Data Arrived at EDR: 04/17/2015
Date Made Active in Reports: 06/23/2015
Number of Days to Update: 67
Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 07/14/2017
Next Scheduled EDR Contact: 10/23/2017
Data Release Frequency: Varies

WDS: Waste Discharge System
Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9
Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Quarterly

WIP: Well Investigation Program Case List
Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13
Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 06/27/2017
Next Scheduled EDR Contact: 10/09/2017
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 04/10/2017
Date Data Arrived at EDR: 04/11/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 31

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 07/07/2017
Next Scheduled EDR Contact: 10/23/2017
Data Release Frequency: Semi-Annually

Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 04/10/2017
Date Data Arrived at EDR: 04/11/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 21

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 07/07/2017
Next Scheduled EDR Contact: 04/24/2047
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA Facility List

Cupa Facility List

Date of Government Version: 03/06/2017
Date Data Arrived at EDR: 03/08/2017
Date Made Active in Reports: 04/14/2017
Number of Days to Update: 37

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 06/16/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA Facility Listing

Cupa facility list.

Date of Government Version: 01/31/2017
Date Data Arrived at EDR: 02/07/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 94

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 07/19/2017
Next Scheduled EDR Contact: 10/23/2017
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 06/27/2017
Next Scheduled EDR Contact: 10/09/2017
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 02/23/2017
Date Data Arrived at EDR: 02/24/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 77

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Varies

CONTRA COSTA COUNTY:

Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 11/17/2016
Date Data Arrived at EDR: 11/22/2016
Date Made Active in Reports: 01/26/2017
Number of Days to Update: 65

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 05/01/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA Facility List
Cupa Facility list

Date of Government Version: 01/31/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/14/2017
Number of Days to Update: 70

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 05/01/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 02/24/2017
Date Data Arrived at EDR: 02/28/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 73

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 05/01/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA Resources List

Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 04/06/2017
Date Data Arrived at EDR: 04/07/2017
Date Made Active in Reports: 05/17/2017
Number of Days to Update: 40

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 06/29/2017
Next Scheduled EDR Contact: 10/16/2017
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA Facility List

Cupa facility list

Date of Government Version: 12/02/2016
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 05/25/2017
Number of Days to Update: 111

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 07/21/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Varies

HUMBOLDT COUNTY:

CUPA Facility List

CUPA facility list.

Date of Government Version: 03/20/2017
Date Data Arrived at EDR: 03/21/2017
Date Made Active in Reports: 05/17/2017
Number of Days to Update: 57

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

IMPERIAL COUNTY:

CUPA Facility List

Cupa facility list.

Date of Government Version: 01/23/2017
Date Data Arrived at EDR: 01/25/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 36

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 07/21/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Varies

INYO COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 03/09/2017
Date Data Arrived at EDR: 03/09/2017
Date Made Active in Reports: 05/25/2017
Number of Days to Update: 77

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

KERN COUNTY:

Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 02/07/2017
Date Data Arrived at EDR: 02/10/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 81

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 03/06/2017
Date Data Arrived at EDR: 03/07/2017
Date Made Active in Reports: 05/17/2017
Number of Days to Update: 71

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

LAKE COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 01/18/2017
Date Data Arrived at EDR: 01/20/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 41

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 07/17/2017
Next Scheduled EDR Contact: 10/30/2017
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 11/30/2016
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 05/25/2017
Number of Days to Update: 111

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 07/21/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Varies

LOS ANGELES COUNTY:

San Gabriel Valley Areas of Concern
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206
Source: EPA Region 9
Telephone: 415-972-3178
Last EDR Contact: 06/16/2017
Next Scheduled EDR Contact: 10/02/2017
Data Release Frequency: No Update Planned

HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 11/14/2016
Date Data Arrived at EDR: 11/18/2016
Date Made Active in Reports: 01/23/2017
Number of Days to Update: 66
Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 07/07/2017
Next Scheduled EDR Contact: 10/23/2017
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 04/17/2017
Date Data Arrived at EDR: 04/18/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 14
Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 07/18/2017
Next Scheduled EDR Contact: 10/30/2017
Data Release Frequency: Varies

City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2016
Date Data Arrived at EDR: 01/26/2016
Date Made Active in Reports: 03/22/2016
Number of Days to Update: 56
Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 07/13/2017
Next Scheduled EDR Contact: 10/30/2017
Data Release Frequency: Varies

Site Mitigation List
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 03/29/2016
Date Data Arrived at EDR: 04/06/2016
Date Made Active in Reports: 06/13/2016
Number of Days to Update: 68
Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 07/17/2017
Next Scheduled EDR Contact: 10/30/2017
Data Release Frequency: Annually

City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/17/2017
Date Data Arrived at EDR: 01/18/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 112
Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 07/13/2017
Next Scheduled EDR Contact: 10/30/2017
Data Release Frequency: Semi-Annually

City of Long Beach Underground Storage Tank
Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 03/09/2017
Date Data Arrived at EDR: 03/10/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 54
Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 07/21/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Annually

City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 01/10/2017
Date Data Arrived at EDR: 01/13/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 110

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 07/07/2017
Next Scheduled EDR Contact: 10/23/2017
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 03/03/2017
Date Data Arrived at EDR: 03/07/2017
Date Made Active in Reports: 05/17/2017
Number of Days to Update: 71

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

MARIN COUNTY:

Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 03/31/2017
Date Data Arrived at EDR: 04/06/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 27

Source: Public Works Department Waste Management
Telephone: 415-473-6647
Last EDR Contact: 06/29/2017
Next Scheduled EDR Contact: 10/16/2017
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 02/22/2017
Date Data Arrived at EDR: 02/23/2017
Date Made Active in Reports: 05/17/2017
Number of Days to Update: 83

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 07/13/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

MONO COUNTY:

CUPA Facility List
CUPA Facility List

Date of Government Version: 02/21/2017
Date Data Arrived at EDR: 03/02/2017
Date Made Active in Reports: 05/17/2017
Number of Days to Update: 76

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 06/24/2016
Date Data Arrived at EDR: 06/27/2016
Date Made Active in Reports: 08/09/2016
Number of Days to Update: 43
Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

NAPA COUNTY:

Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50
Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: No Update Planned

Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 03/15/2017
Date Data Arrived at EDR: 03/16/2017
Date Made Active in Reports: 05/09/2017
Number of Days to Update: 54
Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 02/09/2017
Date Data Arrived at EDR: 02/10/2017
Date Made Active in Reports: 05/17/2017
Number of Days to Update: 96
Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 05/01/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Varies

ORANGE COUNTY:

List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 02/06/2017
Date Data Arrived at EDR: 02/10/2017
Date Made Active in Reports: 04/21/2017
Number of Days to Update: 70
Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/08/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Annually

List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 11/04/2016
Date Data Arrived at EDR: 11/11/2016
Date Made Active in Reports: 01/23/2017
Number of Days to Update: 73
Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/08/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 02/06/2017
Date Data Arrived at EDR: 02/07/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 85
Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/09/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

PLACER COUNTY:

Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 09/02/2016
Date Data Arrived at EDR: 09/06/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 38
Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 01/31/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 05/25/2017
Number of Days to Update: 111
Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 07/21/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Varies

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 04/18/2017
Date Data Arrived at EDR: 04/20/2017
Date Made Active in Reports: 04/21/2017
Number of Days to Update: 1
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 06/19/2017
Next Scheduled EDR Contact: 10/02/2017
Data Release Frequency: Quarterly

Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 01/19/2017
Date Data Arrived at EDR: 01/25/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 98
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 06/19/2017
Next Scheduled EDR Contact: 10/02/2017
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 11/07/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 56

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 07/06/2017
Next Scheduled EDR Contact: 10/16/2017
Data Release Frequency: Quarterly

Master Hazardous Materials Facility List

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 11/08/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 56

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 07/06/2017
Next Scheduled EDR Contact: 10/16/2017
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA Facility List

Cupa facility list

Date of Government Version: 11/30/2016
Date Data Arrived at EDR: 02/09/2017
Date Made Active in Reports: 05/25/2017
Number of Days to Update: 105

Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

Hazardous Material Permits

This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 12/09/2016
Date Data Arrived at EDR: 12/13/2016
Date Made Active in Reports: 03/03/2017
Number of Days to Update: 80

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 05/08/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 10/05/2016
Date Data Arrived at EDR: 12/06/2016
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 86

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 06/07/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Quarterly

Solid Waste Facilities
San Diego County Solid Waste Facilities.

Date of Government Version: 10/31/2015
Date Data Arrived at EDR: 11/07/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 58
Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 07/21/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Varies

Environmental Case Listing
The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24
Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 06/05/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

Local Oversite Facilities
A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10
Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

Underground Storage Tank Information
Underground storage tank sites located in San Francisco county.

Date of Government Version: 02/28/2017
Date Data Arrived at EDR: 03/02/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 62
Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 03/21/2017
Date Data Arrived at EDR: 03/23/2017
Date Made Active in Reports: 05/09/2017
Number of Days to Update: 47
Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 06/16/2017
Next Scheduled EDR Contact: 10/02/2017
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 02/21/2017
Date Data Arrived at EDR: 02/21/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 91
Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

SAN MATEO COUNTY:

Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 03/15/2017
Date Data Arrived at EDR: 04/07/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 33
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 06/09/2017
Next Scheduled EDR Contact: 09/25/2017
Data Release Frequency: Annually

Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/15/2017
Date Data Arrived at EDR: 04/07/2017
Date Made Active in Reports: 04/21/2017
Number of Days to Update: 14
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 06/09/2017
Next Scheduled EDR Contact: 09/25/2017
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28
Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

SANTA CLARA COUNTY:

Cupa Facility List
Cupa facility list

Date of Government Version: 02/22/2017
Date Data Arrived at EDR: 02/23/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 89
Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22
Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13
Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: Annually

Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 11/07/2016
Date Data Arrived at EDR: 11/10/2016
Date Made Active in Reports: 01/24/2017
Number of Days to Update: 75

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA Facility List
CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 03/14/2017
Date Data Arrived at EDR: 03/17/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 67

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

SOLANO COUNTY:

Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 11/29/2016
Date Data Arrived at EDR: 12/21/2016
Date Made Active in Reports: 12/22/2016
Number of Days to Update: 1

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 06/09/2017
Next Scheduled EDR Contact: 09/25/2017
Data Release Frequency: Quarterly

Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 03/15/2017
Date Data Arrived at EDR: 03/17/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 47

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 06/09/2017
Next Scheduled EDR Contact: 09/25/2017
Data Release Frequency: Quarterly

SONOMA COUNTY:

Cupa Facility List
Cupa Facility list

Date of Government Version: 03/01/2017
Date Data Arrived at EDR: 03/30/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 54

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 06/21/2017
Next Scheduled EDR Contact: 10/09/2017
Data Release Frequency: Varies

Leaking Underground Storage Tank Sites

A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 01/04/2017
Date Data Arrived at EDR: 01/06/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 55

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 06/21/2017
Next Scheduled EDR Contact: 10/09/2017
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA Facility List

Cupa facility list

Date of Government Version: 01/20/2017
Date Data Arrived at EDR: 01/24/2017
Date Made Active in Reports: 05/18/2017
Number of Days to Update: 114

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 07/17/2017
Next Scheduled EDR Contact: 10/30/2017
Data Release Frequency: Varies

SUTTER COUNTY:

Underground Storage Tanks

Underground storage tank sites located in Sutter county.

Date of Government Version: 12/02/2016
Date Data Arrived at EDR: 12/06/2016
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 35

Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA Facility List

Cupa facilities

Date of Government Version: 01/05/2017
Date Data Arrived at EDR: 02/10/2017
Date Made Active in Reports: 05/25/2017
Number of Days to Update: 104

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA Facility List

Cupa facility list

Date of Government Version: 01/23/2017
Date Data Arrived at EDR: 01/25/2017
Date Made Active in Reports: 05/18/2017
Number of Days to Update: 113

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 07/21/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Varies

TULARE COUNTY:

CUPA Facility List
Cupa program facilities

Date of Government Version: 01/05/2017
Date Data Arrived at EDR: 02/10/2017
Date Made Active in Reports: 05/25/2017
Number of Days to Update: 104

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 06/29/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 01/25/2017
Date Data Arrived at EDR: 01/27/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 34

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 07/21/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Varies

VENTURA COUNTY:

Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 12/27/2016
Date Data Arrived at EDR: 01/27/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 103

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 07/24/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Quarterly

Inventory of Illegal Abandoned and Inactive Sites
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 06/29/2017
Next Scheduled EDR Contact: 10/16/2017
Data Release Frequency: Annually

Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 05/15/2017
Next Scheduled EDR Contact: 08/28/2017
Data Release Frequency: Quarterly

Medical Waste Program List
To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 09/26/2016
Date Data Arrived at EDR: 10/27/2016
Date Made Active in Reports: 01/24/2017
Number of Days to Update: 89

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 07/24/2017
Next Scheduled EDR Contact: 11/08/2017
Data Release Frequency: Quarterly

Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 02/27/2017
Date Data Arrived at EDR: 03/15/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 49
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 06/14/2017
Next Scheduled EDR Contact: 09/25/2017
Data Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 03/31/2017
Date Data Arrived at EDR: 04/06/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 27
Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 06/29/2017
Next Scheduled EDR Contact: 10/16/2017
Data Release Frequency: Annually

YUBA COUNTY:

CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 01/30/2017
Date Data Arrived at EDR: 01/31/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 112
Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 05/01/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 07/30/2013
Date Data Arrived at EDR: 08/19/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 45
Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 05/15/2017
Next Scheduled EDR Contact: 08/28/2017
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 09/29/2016
Date Made Active in Reports: 01/03/2017
Number of Days to Update: 96
Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 07/10/2017
Next Scheduled EDR Contact: 10/23/2017
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/30/2017
Date Data Arrived at EDR: 02/01/2017
Date Made Active in Reports: 02/13/2017
Number of Days to Update: 12

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 05/03/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 07/22/2016
Date Made Active in Reports: 11/22/2016
Number of Days to Update: 123

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 07/17/2017
Next Scheduled EDR Contact: 10/30/2017
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 06/19/2015
Date Made Active in Reports: 07/15/2015
Number of Days to Update: 26

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 04/13/2017
Date Made Active in Reports: 07/14/2017
Number of Days to Update: 92

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 06/12/2017
Next Scheduled EDR Contact: 09/25/2017
Data Release Frequency: Annually

Oil/Gas Pipelines

Source: PennWell Corporation

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data

Source: PennWell Corporation

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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish & Game
Telephone: 916-445-0411

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

CK-17 LP
CLINTON KEITH ROAD/ANTELOPE ROAD
MURRIETA, CA 92563

TARGET PROPERTY COORDINATES

Latitude (North):	33.599902 - 33° 35' 59.65''
Longitude (West):	117.172214 - 117° 10' 19.97''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	484021.9
UTM Y (Meters):	3717615.5
Elevation:	1538 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5641304 MURRIETA, CA
Version Date:	2012

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

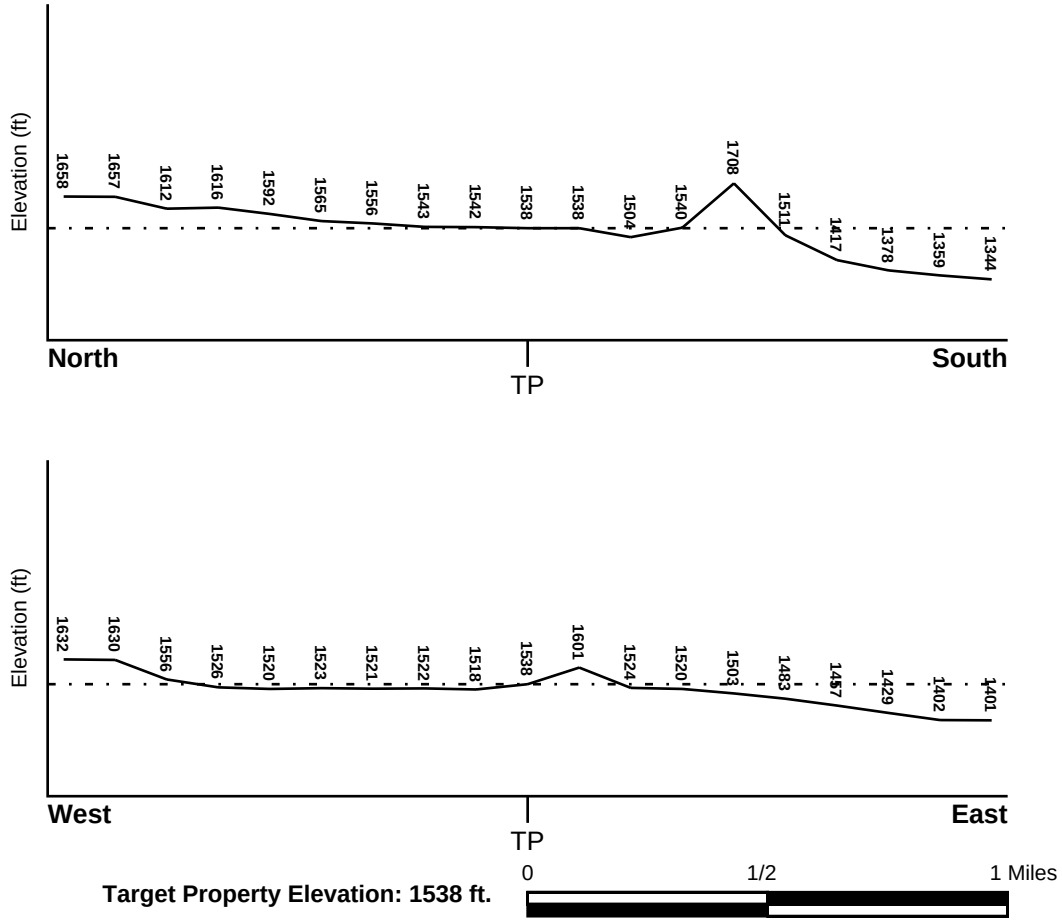
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General South

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Target Property Elevation: 1538 ft.

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
0607510000A	FEMA Q3 Flood data

Additional Panels in search area:	FEMA Source Type
06065C2705G	FEMA FIRM Flood data
0602452735A	FEMA Q3 Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
MURRIETA	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

* ©1996 Site−specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

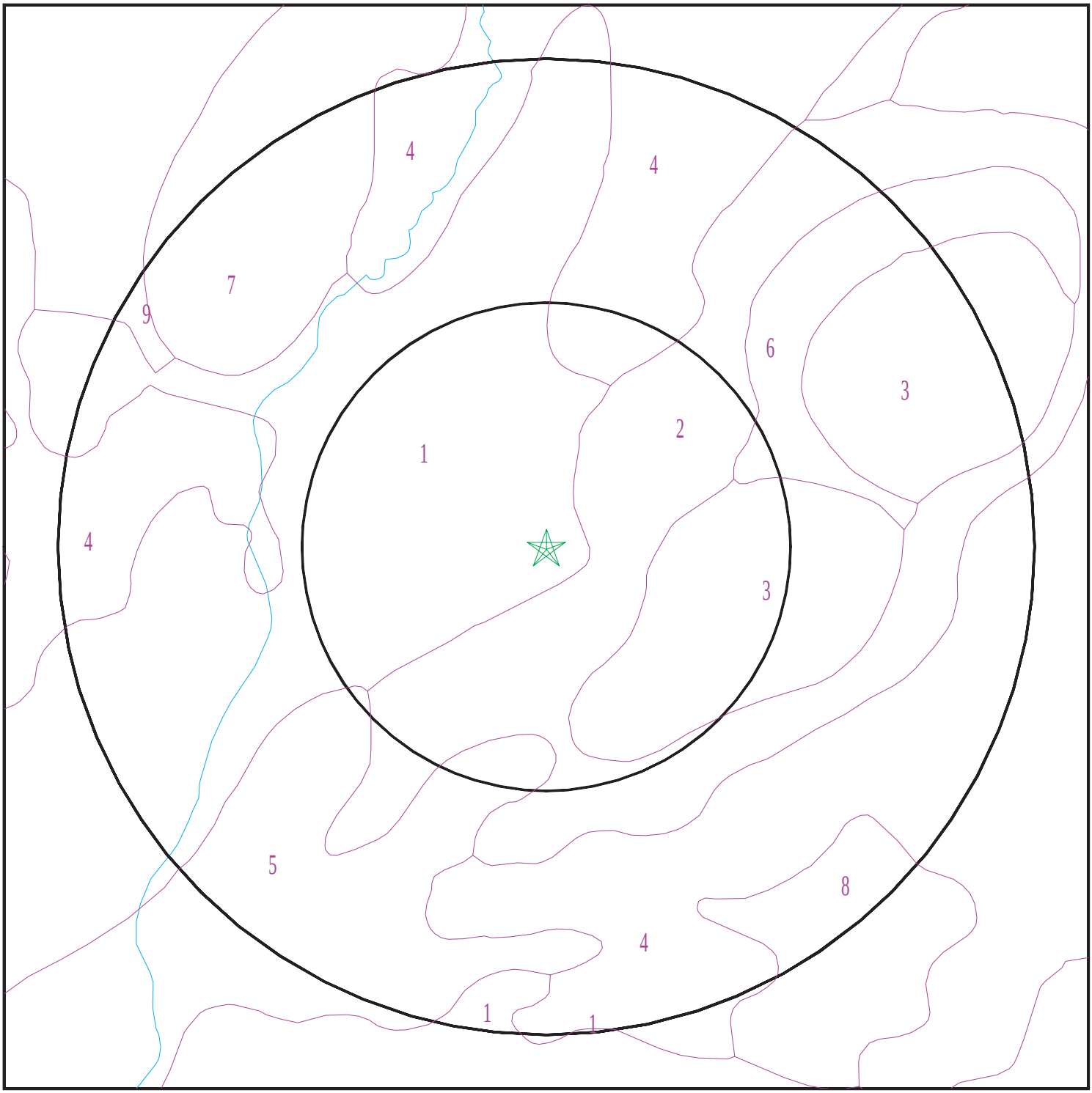
Era:	Mesozoic
System:	Cretaceous
Series:	Cretaceous granitic rocks
Code:	Kg *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Plutonic and Intrusive Rocks

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 5006353.2s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	CK-17 LP	CLIENT:	IWS Environmental
ADDRESS:	Clinton Keith Road/Antelope Road Murrieta CA 92563	CONTACT:	Jim Bunck
LAT/LONG:	33.599902 / 117.172214	INQUIRY #:	5006353.2s
		DATE:	July 27, 2017 8:08 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: CAJALCO

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	12 inches	fine sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.3 Min: 6.1
2	12 inches	22 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 7.3 Min: 6.6
3	22 inches	61 inches	weathered bedrock	Not reported	Not reported	Max: 0.42 Min: 0	Max: Min:

Soil Map ID: 2

Soil Component Name: LAS POSAS

Soil Surface Texture: loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	11 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 7.3 Min: 6.1
2	11 inches	29 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.4 Min: 0.42	Max: 7.8 Min: 6.6
3	29 inches	53 inches	weathered bedrock	Not reported	Not reported	Max: 0.42 Min: 0	Max: Min:

Soil Map ID: 3

Soil Component Name: LAS POSAS

Soil Surface Texture: stony loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	5 inches	stony loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 7.3 Min: 6.1
2	5 inches	20 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.4 Min: 0.42	Max: 7.8 Min: 6.6
3	20 inches	24 inches	weathered bedrock	Not reported	Not reported	Max: 0.42 Min: 0	Max: Min:

Soil Map ID: 4

Soil Component Name: CAJALCO

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	12 inches	fine sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.3 Min: 6.1
2	12 inches	29 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 7.3 Min: 6.6
3	29 inches	61 inches	weathered bedrock	Not reported	Not reported	Max: 0.42 Min: 0	Max: Min:

Soil Map ID: 5

Soil Component Name: CIENEBA

Soil Surface Texture: sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	14 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.3 Min: 5.1

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
2	14 inches	22 inches	weathered bedrock	Not reported	Not reported	Max: 0.42 Min: 0	Max: Min:

Soil Map ID: 6

Soil Component Name: LAS POSAS

Soil Surface Texture: loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	5 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 7.3 Min: 6.1
2	5 inches	20 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.4 Min: 0.42	Max: 7.8 Min: 6.6
3	20 inches	24 inches	weathered bedrock	Not reported	Not reported	Max: 0.42 Min: 0	Max: Min:

Soil Map ID: 7

Soil Component Name: CIENEBA

Soil Surface Texture: sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	14 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.3 Min: 5.1
2	14 inches	22 inches	weathered bedrock	Not reported	Not reported	Max: 0.42 Min: 0	Max: Min:

Soil Map ID: 8

Soil Component Name: LAS POSAS

Soil Surface Texture: loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	11 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 7.3 Min: 6.1
2	11 inches	29 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.4 Min: 0.42	Max: 7.8 Min: 6.6
3	29 inches	53 inches	weathered bedrock	Not reported	Not reported	Max: 0.42 Min: 0	Max: Min:

Soil Map ID: 9

Soil Component Name: CAJALCO

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	12 inches	fine sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.3 Min: 6.1

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
2	12 inches	18 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 7.3 Min: 6.6
3	18 inches	61 inches	weathered bedrock	Not reported	Not reported	Max: 0.42 Min: 0	Max: Min:

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 0.001 miles
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	USGS40000135764	1/8 - 1/4 Mile South
2	USGS40000135841	1/8 - 1/4 Mile North
A3	USGS40000135877	1/4 - 1/2 Mile NNE
B4	USGS40000135892	1/4 - 1/2 Mile North
A5	USGS40000135891	1/4 - 1/2 Mile NNE
B6	USGS40000135898	1/4 - 1/2 Mile North
C7	USGS40000135897	1/4 - 1/2 Mile NNE
C8	USGS40000135902	1/4 - 1/2 Mile NNE
9	USGS40000135873	1/4 - 1/2 Mile ENE
D10	USGS40000135916	1/4 - 1/2 Mile North
11	USGS40000135795	1/4 - 1/2 Mile West
D12	USGS40000135928	1/4 - 1/2 Mile North
E13	USGS40000135775	1/2 - 1 Mile West
14	USGS40000135905	1/2 - 1 Mile NW
F15	USGS40000135944	1/2 - 1 Mile NNE

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
16	USGS40000135701	1/2 - 1 Mile SSE
G17	USGS40000135835	1/2 - 1 Mile WNW
E18	USGS40000135765	1/2 - 1 Mile WSW
F19	USGS40000135953	1/2 - 1 Mile NNE
G20	USGS40000135842	1/2 - 1 Mile WNW
21	USGS40000135961	1/2 - 1 Mile NNE
22	USGS40000135836	1/2 - 1 Mile WNW
H23	USGS40000136001	1/2 - 1 Mile NNE
I24	USGS40000136002	1/2 - 1 Mile NNE
I25	USGS40000136003	1/2 - 1 Mile NNE
26	USGS40000135941	1/2 - 1 Mile NW
H27	USGS40000136010	1/2 - 1 Mile NNE
H28	USGS40000136018	1/2 - 1 Mile North
29	USGS40000135932	1/2 - 1 Mile NW
J30	USGS40000135978	1/2 - 1 Mile NW
31	USGS40000135691	1/2 - 1 Mile SE
32	USGS40000136021	1/2 - 1 Mile North
J33	USGS40000135979	1/2 - 1 Mile NW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

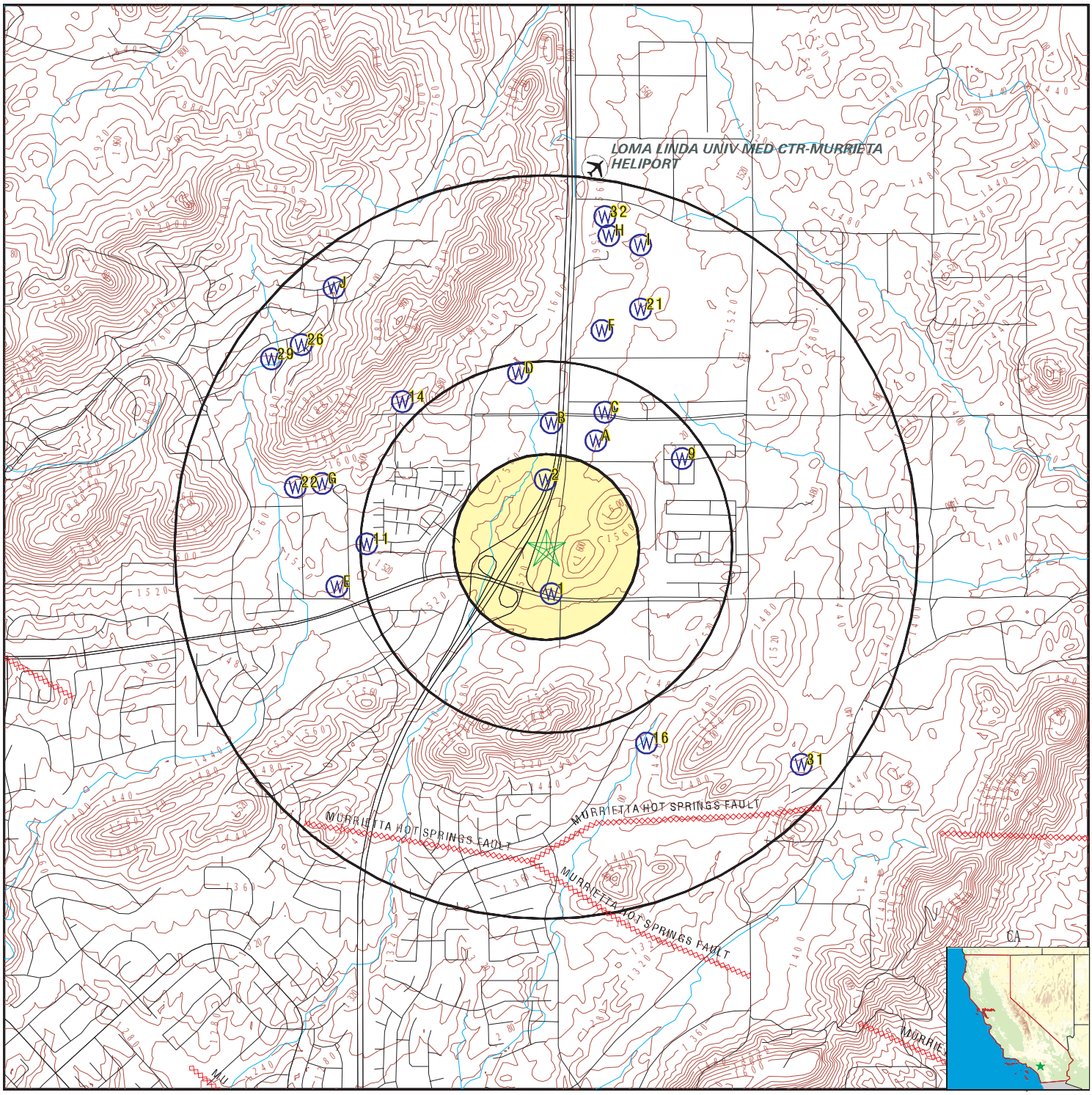
MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

PHYSICAL SETTING SOURCE MAP - 5006353.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- HD Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME:	CK-17 LP	CLIENT:	IWS Environmental
ADDRESS:	Clinton Keith Road/Antelope Road Murrieta CA 92563	CONTACT:	Jim Bunck
		INQUIRY #:	5006353.2s
LAT/LONG:	33.599902 / 117.172214	DATE:	July 27, 2017 8:08 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

1
South **FED USGS** **USGS40000135764**
1/8 - 1/4 Mile
Higher

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-333553117101601		
Monloc name:	006S003W34R001S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.5980801
Longitude:	-117.1719772	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1522.00
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Other aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19670101	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

2
North **FED USGS** **USGS40000135841**
1/8 - 1/4 Mile
Higher

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-333609117101701		
Monloc name:	006S003W34J003S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.6025244
Longitude:	-117.172255	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1540.00
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Other aquifers		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	19560101	Welldepth:	100
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1968-04-01	21.00	

A3
NNE **FED USGS** **USGS40000135877**
1/4 - 1/2 Mile
Higher

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-333613117100901		
Monloc name:	006S003W35M001S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.6036355
Longitude:	-117.1700327	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1542.00
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Other aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19280101	Welldepth:	40
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

B4
North **FED USGS** **USGS40000135892**
1/4 - 1/2 Mile
Higher

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-333616117101401		
Monloc name:	006S003W34J002S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.6044688
Longitude:	-117.1714216	Sourcemap scale:	Not Reported

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1550.00
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Other aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	40
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

A5
NNE **FED USGS** **USGS40000135891**
1/4 - 1/2 Mile
Higher

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-333616117100801		
Monloc name:	006S003W35M002S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.6044688
Longitude:	-117.1697549	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1540.00
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Other aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	27
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1968-04-01	20.00	

B6
North **FED USGS** **USGS40000135898**
1/4 - 1/2 Mile
Higher

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-333618117101801		
Monloc name:	006S003W34J001S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.6050243
Longitude:	-117.1725328	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1555.00
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Other aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19510101	Welldepth:	50
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1968-04-01	28.00	

C7
NNE
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000135897**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-333618117100701		
Monloc name:	006S003W35M004S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.6050244
Longitude:	-117.169477	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1540.00
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Other aquifers		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

C8
NNE **FED USGS** **USGS40000135902**
1/4 - 1/2 Mile
Higher

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-333619117100701		
Monloc name:	006S003W35M003S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.6053021
Longitude:	-117.169477	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1545.00
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Other aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	35
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1968-04-01	25.00	

9
ENE **FED USGS** **USGS40000135873**
1/4 - 1/2 Mile
Lower

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-333612117095401		
Monloc name:	006S003W35L001S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.6033578
Longitude:	-117.1658658	Sourcemap scale:	Not Reported

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1490.00
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Other aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	41
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1968-04-01	25.00	

D10
North
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000135916**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-333623117102101		
Monloc name:	006S003W34H002S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.6064132
Longitude:	-117.1733662	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1580.00
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Other aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	40
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

11
West
1/4 - 1/2 Mile
Lower

FED USGS **USGS40000135795**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-333600117104701		
Monloc name:	006S003W34P002S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.6000244
Longitude:	-117.1805887	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1520.00
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Other aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1968-04-01	27.00	

D12
North
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000135928**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-333625117102201		
Monloc name:	006S003W34H001S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.6069687
Longitude:	-117.173644	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1585.00
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Other aquifers		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	42
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1968-04-01	28.00	

E13
West
1/2 - 1 Mile
Lower

FED USGS **USGS40000135775**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-333555117105001		
Monloc name:	006S003W34P003S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.5986356
Longitude:	-117.181422	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1498.00
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Other aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19680101	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1968-04-01	23.00	

14
NW
1/2 - 1 Mile
Higher

FED USGS **USGS40000135905**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-333620117104101		
Monloc name:	006S003W34G001S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.6055798
Longitude:	-117.178922	Sourcemap scale:	Not Reported

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1640.00
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Other aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19650101	Welldepth:	155
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1968-04-01	52.00	

F15
NNE
1/2 - 1 Mile
Higher

FED USGS **USGS40000135944**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-333629117100901		
Monloc name:	006S003W35E002S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.6080798
Longitude:	-117.1700327	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1555.00
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Other aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	42
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1968-04-01	25.00	

16
SSE
1/2 - 1 Mile
Lower

FED USGS **USGS40000135701**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-333532117100001		
Monloc name:	007S003W02E001S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.592247
Longitude:	-117.1675325	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1425.00
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Other aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	35
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1968-01-01	9.00	

G17
WNW
1/2 - 1 Mile
Higher

FED USGS **USGS40000135835**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-333608117105301		
Monloc name:	006S003W34L002S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.6022466
Longitude:	-117.1822554	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1560.00
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Other aquifers		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	145
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

E18
WSW **FED USGS** **USGS40000135765**
1/2 - 1 Mile
Lower

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-333553117105401		
Monloc name:	006S003W34P001S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.59808
Longitude:	-117.1825332	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1500.00
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Other aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19660101	Welldepth:	34
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

F19
NNE **FED USGS** **USGS40000135953**
1/2 - 1 Mile
Higher

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-333631117100601		
Monloc name:	006S003W35E001S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.6086354
Longitude:	-117.1691993	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1550.00
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Other aquifers		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	34
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1968-04-01	25.00	

G20
WNW **FED USGS** **USGS40000135842**
1/2 - 1 Mile
Higher

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-333609117105601		
Monloc name:	006S003W34L001S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.6025243
Longitude:	-117.1830888	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1570.00
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Other aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19650101	Welldepth:	120
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1968-04-01	100.00	

21
NNE **FED USGS** **USGS40000135961**
1/2 - 1 Mile
Higher

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-333633117100101		
Monloc name:	006S003W35D004S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.6091909
Longitude:	-117.1678104	Sourcemap scale:	Not Reported

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1535.00
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Other aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	25
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1968-04-01	18.00	

22
WNW **FED USGS** **USGS40000135836**
1/2 - 1 Mile
Higher

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-333608117105901		
Monloc name:	006S003W34M001S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.6022465
Longitude:	-117.1839222	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1560.00
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Other aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19650101	Welldepth:	84
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1968-04-01	25.00	

H23
NNE **FED USGS** **USGS40000136001**
1/2 - 1 Mile
Higher

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-333641117100601		
Monloc name:	006S003W35D003S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.6114131
Longitude:	-117.1691993	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1540.00
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Other aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19480101	Welldepth:	50
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

I24
NNE **FED USGS** **USGS40000136002**
1/2 - 1 Mile
Lower

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-333642117100101		
Monloc name:	006S003W35D001S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.6116908
Longitude:	-117.1678104	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1540.00
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Other aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19480101	Welldepth:	50
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

I25
NNE
1/2 - 1 Mile
Lower

FED USGS **USGS40000136003**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-333642117100102		
Monloc name:	006S003W35D002S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.6116908
Longitude:	-117.1678104	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1540.00
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Other aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

26
NW
1/2 - 1 Mile
Higher

FED USGS **USGS40000135941**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-333628117105801		
Monloc name:	006S003W34F001S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.6078019
Longitude:	-117.1836444	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1680.00
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Other aquifers		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	19650101	Welldepth:	120
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1968-04-01	18.00	

H27
NNE **FED USGS** **USGS40000136010**
1/2 - 1 Mile
Higher

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-333644117100601		
Monloc name:	006S003W26N002S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.6122464
Longitude:	-117.1691993	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1550.00
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Other aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19510101	Welldepth:	64
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

H28
North **FED USGS** **USGS40000136018**
1/2 - 1 Mile
Higher

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-333645117100701		
Monloc name:	006S003W26N001S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.6125241
Longitude:	-117.1694771	Sourcemap scale:	Not Reported

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1550.00
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Other aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19310101	Welldepth:	28
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

29
NW
1/2 - 1 Mile
Higher

FED USGS **USGS40000135932**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-333626117110301		
Monloc name:	006S003W34E004S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.6072464
Longitude:	-117.1850333	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1670.00
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Other aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	400
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1968-04-01	111.00	

J30
NW
1/2 - 1 Mile
Higher

FED USGS **USGS40000135978**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-333636117105201		
Monloc name:	006S003W34C001S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.6100241
Longitude:	-117.1819777	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1750.00
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Other aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19650101	Welldepth:	100
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1968-04-01	43.00	

31
SE
1/2 - 1 Mile
Lower

FED USGS **USGS40000135691**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-333529117093401		
Monloc name:	007S003W02G001S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.5914137
Longitude:	-117.16031	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1430.00
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Other aquifers		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	13
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1968-01-01	10.00	

32
North
1/2 - 1 Mile
Higher

FED USGS **USGS40000136021**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-333646117100701		
Monloc name:	006S003W26N003S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.6128019
Longitude:	-117.1694771	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1450.00
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Other aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19500101	Welldepth:	52
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

J33
NW
1/2 - 1 Mile
Higher

FED USGS **USGS40000135979**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-333636117105301		
Monloc name:	006S003W34C002S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.6100241
Longitude:	-117.1822555	Sourcemap scale:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1740.00
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Other aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19650101	Welldepth:	294
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1968-04-01	56.00	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
92563	21	2

Federal EPA Radon Zone for RIVERSIDE County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for RIVERSIDE COUNTY, CA

Number of sites tested: 12

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.117 pCi/L	100%	0%	0%
Living Area - 2nd Floor	0.450 pCi/L	100%	0%	0%
Basement	1.700 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish & Game
Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Public Health
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations
Source: Department of Conservation
Telephone: 916-323-1779
Oil and Gas well locations in the state.

RADON

State Database: CA Radon
Source: Department of Health Services
Telephone: 916-324-2208
Radon Database for California

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

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Appendix D

Phase I / TSA Environmental Site Assessment (ESA) User Requirements

PROJECT ADDRESS: APNs 392-27-30; 31, 32, 33

In conformance with ASTM Standard E1527-13 and in order to qualify for one of the Landowner Liability Protections (LLPs) offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the "Brownfields Amendments"),the user must conduct the following inquiries required by 40 CFR 312.25, 312.28, 312.29, 312.30, and 312.31. These inquiries must also be conducted by EPA Brownfield Assessment and Characterization grantees. The user should provide the following information to the environmental professional. **Failure to conduct these inquiries could result in a determination that "all appropriate inquiries" is not complete**. Attach additional pages, if needed.

GENERAL INFORMATION TO ASSIST ENVIRONMENTAL PROFESSIONAL:

Purpose of ESA:

☐ :Sell ☒ :Purchase ☐ :Refinance ☐ :Foreclosure ☐ :Other, list-_____

Type of property:

☐ :Commercial ☐ :Industrial ☒ :Vacant ☐ :Other, list-_____

Property details, list-

Are Site Plans and/or any previous Environmental Site Assessment Reports/documents concerning the property and its environmental condition available?

☒ :No ☐ :Yes, list - _____

*Documents should be provided to the Environmental Professional

Desired Scope of Services:

☐ :Transaction Screen Analysis in accordance with ASTM E1528-14

☒ :Phase I ESA with no additional non-ASTM services

☐ :Phase I ESA with the following additional non-ASTM services, list-

_____

What parties will rely on the ESA (e.g., the user, financial institution, etc.)?

List: FINANCIAL INSTITUTIONS - PARTNERSHIP. CITY OF MURRIETA

Who is the site contact (to arrange a site visit) and how may the contact be reached?

Contact name: RANDY WEISSER

Relation to property: PART OWNER

Phone number/email: 760-897-0863

USER QUESTIONNAIRE:

(1.) Environmental liens that are filed or recorded against the property (40 CFR 312.25): Did a search of recorded land title records (or judicial records) identify any environmental liens filed or recorded against the property under federal, tribal, state or local law?

☐ **Yes** (list):

☒ **No**

(2.) Activity and use limitations (AULs) that are in place on the property or that have been filed or recorded against the property (40 CFR 312.26(a)(1)(v) and vi)): Did a search of recorded land title records (or judicial records) identify any AULs, such as engineering controls, land use restrictions or institutional controls that are in place at the property and/or have been filed or recorded against the property under federal, tribal, state or local law?

☐ **Yes** (list):

☒ **No**

(3.) Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.28): Do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?

☐ **Yes** (list):

☒ **No**

(4.) Relationship of the purchase price to the fair market value of the property if it were not contaminated (40 CFR 312.29):

Does the purchase price being paid for this property reasonably reflect the fair market value of the property?

☒ **Yes** ☐ **No**

If you conclude that there is a difference (answer **No**), have you considered whether the lower purchase price is because contamination is known or believed to be present at the property?

☒ **Yes** (list): NO KNOWN CONTAMINATE

☐ **No**

(5.) Commonly known or reasonably ascertainable information about the property (40 CFR 312.30):

Do you know the past uses of this property?

☐ **Yes** (list):

☒ **No**

Do you know of specific chemicals that are present or once were present at the property?

☐ **Yes** (list):

☒ **No**

Do you know of Underground Storage Tanks that are present or once were present at the property?

☐ **Yes** (list):

☒ **No**

Do you know of spills or other chemical releases that have taken place at the property?

☐ **Yes** (list):

☒ **No**

Do you know of any environmental cleanups that have taken place at the property?

☐ **Yes** (list):

☒ **No**

(6.) The degree of obviousness of the presence or likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31): Based on your knowledge and experience related to the property are there any obvious indicators that point to the presence or likely presence of releases at the property?

☐ **Yes** (list):

☒ **No**

User Name (printed): RANDY WEISSER

Company (if applicable): _____

User Signature: _____ **Date:** 8-11-17

TRANSACTION SCREEN QUESTIONNAIRE (attach additional pages, if needed)

(1a.) Is the property *currently used*, or used in the *past*, for research, military and/or industrial use?

☐ Yes ☒ No ☐ Unknown -If yes, describe:

(1b.) Are any of the adjoining properties *currently used*, or have been used in the *past*, for research, military and/or industrial use? ☐ Yes ☒ No ☐ Unknown -If yes, describe:

(2a.) Is the property *currently used*, or used in the *past*, as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing lab, junkyard or landfill or as a waste treatment, storage, disposal, processing or recycling facility? ☐ Yes ☒ No ☐ Unknown

If yes, describe (and identify which):

(2a.) Are any of the adjoining properties *currently used*, or have been used in the *past*, as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing lab, junkyard or landfill or as a waste treatment, storage, disposal, processing or recycling facility?

☐ Yes ☒ No ☐ Unknown -If yes, describe (and identify which):

(3.) Are there *currently*, or have there been in the *past*, any damaged or discarded automotive or industrial batteries, pesticides, paints or other chemicals in individual containers larger than 5-gallon stored or used at the property or facility? ☐ Yes ☐ No ☒ Unknown -If yes, describe:

(4.) Are there *currently*, or have there been in the *past*, any industrial drums, typically 55-gallon, or sacks of chemicals located on the property or facility? ☐ Yes ☐ No ☒ Unknown -If yes, describe:

☐

(5.) Did you observe evidence or do you have prior knowledge that fill dirt has been brought onto the property that originated from a *contaminated site* or from an *unknown origin*?

☐ Yes ☒ No ☐ Unknown -If yes, describe:

(6.) Are there *currently*, or have there been in the *past*, any pits, ponds or lagoons located on the property in connection with waste treatment or waste disposal?

☐ Yes ☒ No ☐ Unknown -If yes, describe:

(7.) Is there *currently*, or has there been in the *past*, any stained soil on the property?

☐ Yes ☐ No ☒ Unknown -If yes, describe:

(8.) Are there *currently*, or has there been in the *past*, any registered or unregistered storage tanks (above or under-ground) located on the property? ☐ Yes ☐ No ☒ Unknown

If yes, where are they located? Number, Size, Content

(9.) Are there *currently*, or has there been in the *past*, any vent pipes, fill pipes or access ways indicating a fill pipe protruding from the ground on the property or adjacent to any structure located on the property? ☐ Yes ☒ No ☐ Unknown -If yes, describe (include location):

(10.) Are there *currently*, or has there been in the *past*, any flooring, drains or walls located within the facility that are stained by substances other than water or are emitting foul odors?

☐ Yes ☒ No ☐ Unknown -If yes, describe:

(11a.) If the property is served by a private well or non-public water system, is there evidence or do you have prior knowledge that contaminants have been identified in the well or system that exceed guidelines applicable to the water system? ☐ Yes ☐ No ☒ Unknown Non-applicable
-If yes, describe:

(11b.) If the property is served by a private well or non-public water system, is there evidence or do you have prior knowledge that the well has been designated as contaminated by any government environmental/health agency? ☐ Yes ☒ No ☐ Unknown Non-applicable
-If yes, describe:

(12.) Does the owner or occupant of the property have any knowledge of environmental liens or governmental notification relating to *past* or *recurrent* violations of environmental laws with respect to the property or any facility located on the property? ☐ Yes ☒ No ☐ Unknown

-If yes, describe:

(13.) Has the owner or occupant of the property been informed of the *current* or *past* existence of hazardous substances or petroleum products with respect to the property or any facility located on the property? ☐ Yes ☐ No ☒ Unknown -If yes, describe:

(14.) Has the owner or occupant of the property been informed of the *current* or *past* existence of environmental violations with respect to the property or any facility located on the property?

☐ Yes ☐ No ☒ Unknown -If yes, describe:

(15.) Does the owner or occupant of the property have any knowledge of any past environmental site assessments of the property or facility. (Phase I, II, sampling etc.) ☐ Yes ☐ No ☒ Unknown

If Yes, did the assessment indicate the presence of hazardous substances or petroleum products on, or contamination of, the property or recommended further assessment of the property?

☐ Yes ☐ No ☒ Unknown

Can you provide IWS with a copy (or copies) of any previous environmental assessments and/or documents in relation to the property? ☐ Yes ☒ No

(16.) Does the owner or occupant of the property have any knowledge of any past, threatened or pending lawsuits or administrative proceedings concerning a release or threatened release of any hazardous substances or petroleum products involving the property by any owner or occupant of the property? ☐ Yes ☐ No ☒ Unknown -If yes, describe:

(17a.) Does the property discharge waste water, on or adjacent to the property, other than storm water, into a storm water sewer system? ☐ Yes ☒ No ☐ Unknown -If yes, describe:

(17b.) Does the property discharge waste water, on or adjacent to the property, other than storm water, into a sanitary sewer system? ☐ Yes ☒ No ☐ Unknown -If yes, describe:

(18.) Did you observe evidence or do you have any prior knowledge that any hazardous substances or petroleum products, unidentified waste materials, tires, automotive or industrial batteries, or any other waste materials have been dumped above grade, buried and/or burned on the property?

☐ Yes ☒ No ☐ Unknown -If yes, describe

(19.) Is there a transformer, capacitor, or any hydraulic equipment for which there are any records indicating the presence of PCBs? ☐ Yes ☐ No ☒ Unknown -If yes, describe:

(20.) Are there any additional items of possible environmental concern regarding the property that have not been discussed in this interview? ☐ Yes ☒ No -If yes, describe:

Note: Helpful subject property documents that should be transmitted to IWS include the following:

- Environmental Site Assessment Reports
- Environmental Compliance Audit Reports
- Environmental permits
- UST/AST registrations
- Underground injection system registrations
- Hazardous Materials Inventories and Hazardous Materials Management Plans
- Risk assessments
- Geotechnical studies
- Recorded AULs (Activity and Use Limitations)

ASTM Transaction Screen Questionnaire
for the Phase I Environmental Site Assessment (E1527-13) & Environmental Transaction Screen Processes (E1528-14) 06)

In accordance with ASTM Standard Process E1527-13, the objective of an interview/questionnaire is to obtain information indicating Recognized Environmental Conditions (RECs) in connection with the property. This questionnaire is to be completed by the current/past property owner, occupant or anyone with past knowledge concerning the property, either in written form or verbally, with questions asked by IWS or User (Client) designated parties. All questions should be answered to the best of the respondent's actual knowledge and must be answered in good faith. Explanations to any answers, especially "Yes" answers, should be made in the space following the question or on a separate sheet, noting the question number. Please be as complete as possible; if you do not know the answer to a question, please check unknown. Following the site visit, it may be necessary for IWS or the preparer to ask clarifying questions of the interviewee(s).

IWS Project Name & Number: APNs 392-27-30-31-32-33
Project Address: _____
Interview type: ☐ : Verbal ☒ :Written

Person Interviewed: **Date:** 8-12-17
Name: RAHOY WEISSER
Company: FELICITA FINANCIAL
Address: 41623 MARGARITA RD
Contact Info: 760-877-0863
Relationship to property:
- ☐ :current property owner
- ☐ :former property owner
- ☐ :property occupant
- ☐ :site manager

☐ This interview was performed by: *OR*
Name: _____
Title: _____
of *IWS* Environmental (IWS)
phone: 714-893-6140
email: jim@iwsenvironmental.com

User/Client Information:
Name: _____
Company: _____
Address: _____
Contact Info: _____
Relationship to property:
- ☐ :property seller/owner
- ☒ :property buyer
- ☐ :financing entity
- ☐ :other, list ____ -

☐ This interview was performed/administered by:
Name: _____
Address: _____
Phone/fax: _____
Relationship to property, list: _____
Relationship to user (client), list: _____

The preparer represents that to the best of the preparer's knowledge the statements and facts made below are true and correct and to the best of the preparer's actual knowledge no material facts have been suppressed or misstated.

_____ Signature _____ Date (Preparer/Interviewer)

_____ Signature _____ Date (Interviewee, if available)

GENERAL HISTORY OF THE PROPERTY

When did you first obtain or begin managing this property? If you are not an owner, what is or was your relationship to the subject property? Are you still associated with the property?

PURCHASER

From whom did the current owner obtain the property? How long did the former owner hold the property?

UNKNOWN

What is the general history of the property? Please include what residential or business uses have been made of the property and when, and what structures were built or demolished and when. If it is agricultural, what general crops have been grown and when.

VACANT LAND

What is the general history and use of the adjacent properties and the general surrounding area?

North: VACANT

South: VACANT

East: VACANT

West: FREEWAY

PRESENCE OF ASBESTOS IN ON-SITE STRUCTURE(S)

Has an asbestos survey been performed on the property buildings? ☐ Yes ☒ No Unknown

If YES, assuming the survey included physical sampling by a qualified firm, was the property free of asbestos, or not free of asbestos? ☐ Free ☐ Not Free ☐ Unknown

Explain as appropriate; do you have a copy of the survey report? ☐ Yes ☐ No
*if a copy is available, please provide to IWS

Do you have any past or present knowledge of asbestos-containing materials (ACMs) on the property? ☐ Yes ☒ No Unknown

If yes, describe:

ADDITIONAL HAZARDS

Lead-based Paint (LBP): Are you aware of the presence of LBP-coated surfaces on the property structure(s)? ☐ Yes ☐ No ☒ Unknown

If yes, describe:

Is there any evidence on the subject property of illegal or dangerous on-site application, handling or storage of maintenance chemicals such as pesticides, rodenticides, fertilizers, cleaners, paint solvents, swimming pool cleaners, etc.? ☐ Yes ☐ No ☒ Unknown

If yes, describe:

Have there ever been any dry wells, sumps, separators (or clarifiers or grease traps) or in-ground hydraulic lifts on the property? ☐ Yes ☐ No ☒ Unknown

If yes, describe (include where, what use and size, if known):

SUBJECT PROPERTY UTILITY INFORMATION

Is water currently provided by: ☒ public water system ☐ well ☐ private company

List name of utility provider and/or location of well, connection date: ☐ none or list-
EMWD

Electrical utility provider and estimated connection date: ☒ none or list-

Natural gas utility provider and estimated connection date: ☒ none or list-

Does the property discharge waste water to a : ☐ municipal sewer sanitary system; ☐ on-site sewage treatment system; ☐ on-site septic system; or ☒ there is no sewer utility/septic on-site.

If the property is served by a septic system or systems, please list the location of the system (is a permit available?):
N/A

Appendix E

THIS MAP WAS PREPARED FOR ASSESSMENT PURPOSES ONLY. NO LIABILITY IS ASSUMED FOR THE ACCURACY OF THE DATA SHOWN. ASSESSOR'S PARCEL MAY NOT COMPLY WITH LOCAL LOT-SPLIT OR BUILDING SITE ORDINANCES.

POR. SE, SEC. 34, 35 T. 6S, R. 3W

CITY OF MURRIETA

TRA 024-141
024-307
024-351
024-366

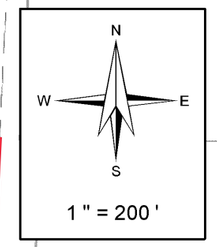
392-27

359-50

GENTLEBROOK CT
CHARLESTON CT
LARABEE CT
WOBURN CT
LAJUNE
VIRIDIAN STREET
ALPENTIAL LN
SPRINGVALE LN
PAPILLION ST
SATTERLEE LN
ELLISON LN
DARRINGTON AVE
HAZELHURST STREET
LOGANBERRY AVE
MAPLE VALLEY AVE
SIERRA LN
CLINTON KEITH RD
CATT RD
McELWAIN RD.
CLINTON KEITH RD.
KALMIA ST. (VAC.)
I-215

271 1-87
272 1-51 2.83 AC M/L
273 1-75,77
LOT 1 CM 77 12.77 AC M/L
LOT C 29
LOT A
LOT B
LOT F
LOT G
PAR 1 EX 21
PAR 2 05 2.31 AC NT
PAR 3 39
PAR 4 40
PAR 5 41
PAR 6 42
PAR 2 38
PAR 1 37
PAR 2 22 1.28 AC
PAR 3 23
PAR 4 24 1.43 AC
PAR 5 35
PAR 5 34 1.54 AC ML
56 2.11 AC M/L
55 1.20 AC M/L
58
57
31 3.43 AC M/L
270
33 3.06 AC ML
32
30 1.33 AC M/L

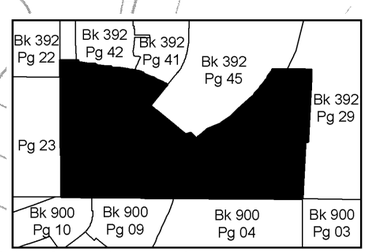
024-141
024-307
024-351
024-366
024-350
TRA 024-307
TRA 024-351
TRA 024-141
TRA 024-366
PAR 5
PAR 6
PAR 2
PAR 3
PAR 4
PAR 1
TRA
PM 64/94
PM 233/21
PM 217/75
CM 192/1
0429939 9/2015
TR 32475



Legend
- Lot Lines
- Right-Of-Way
- Old Lot Lines
- Reference R.O.W
- Other Easements
- Lease Area
- Subdivision Tic Mark

Date	Old Number	New Number
2/2/2005	15	17,ST
9/12/2005	16	18,ST
10/4/2006	260-016	21-27
10/4/2006	6	19,20
10/4/2006	2,3,7,19	260-016
12/11/2006	1	28,29
1/18/2007	26-27	PG.45
10/10/2007	28	271-1-85
10/10/2007	28	273-1-76
10/10/2007	28	272-1-51
9/8/2009	18	30,ST
9/8/2009	17	ST
9/8/2009	13	31,ST
9/8/2009	14	32,ST
9/8/2009	ADD ASMT	33
1/25/2010	25	34-35
1/12/2012	4,8	36
1/12/2012	36	37-42
12/26/2012	12	43,ST
12/26/2012	ADD ASMT	44
3/5/2016	273-76	77,ST
11/4/2016	11	45-47
11/4/2016	20	48-49
11/4/2016	43	50-52
11/4/2016	44	53-54
11/4/2016	47,52	55
11/4/2016	46,49,51,54	56
11/4/2016	10,45,53	57
11/4/2016	9	58,ST

Data
CM 187/10
PM 31/36, PM 71/27
STATE HWY MAPS 913054,55,61,62,63



Map Reference *
PM 64/94 PARCEL MAP NO. 11972
MB 412/38 - 40 TRACT NO. 32475
CM 192/1 - 61 LOTS 1,C #0537771 08/21/07
PM 217/75 - 80 PARCEL MAP NO. 32893
PM 233/19 - 22 PARCEL MAP NO. 36268
MB 343/67 - 69 TRACT MAP NO. 29556

ASSESSOR'S MAP BK392 PG. 27
Riverside County, Calif.

jtobin

Dec 2016

THIS MAP WAS PREPARED FOR ASSESSMENT PURPOSES ONLY. NO LIABILITY IS ASSUMED FOR THE ACCURACY OF THE DATA SHOWN. ASSESSOR'S PARCEL MAY NOT COMPLY WITH LOCAL LOT-SPLIT OR BUILDING SITE ORDINANCES.

NOV 29 2007

POR. SE 34 T.6S., R.3W
CITY OF MURRIETA

T.R.A. 024-141

392-271

FLOOR 1
SHEET 2 OF 4

1" = 60'
ANGLE = 0

BLDG. 1 (1, 2, 3) BLDG. 2 (4, 5, 6)
CM 192/1
ST
GENTLEBROOK CT
BLDG. 71 (85, 86, 87, 211, 212, 213)
BLDG. 58 (64, 65, 66, 172, 173, 174)
BLDG. 70 (82, 83, 84, 208, 209, 210)
BLDG. 59 (67, 68, 69, 175, 176, 177)
LARA BEE CT
BLDG. 69 (79, 80, 81, 205, 206, 207)
BLDG. 60 (70, 71, 72, 178, 179, 180)
BLDG. 68 (76, 77, 78, 202, 203, 204)
BLDG. 61 (73, 74, 75, 181, 182, 183)
CM 192/1
WOBURN CT
LAJUNE

LOT 1
BLDG. 3 (7, 8, 9)
BLDG. 4 (10, 11, 12)
BLDG. 5 (13, 14, 15)
BLDG. 6 (16, 17, 18)
BLDG. 7 (19, 20, 21)
BLDG. 8 (22, 23, 24)
BLDG. 9 (25, 26, 27)
VIRIDIAN
LOT C
CM 192/1
ST
BLDG. 57 (61, 62, 63, 169, 170, 171)
BLDG. 54 (52, 53, 54, 160, 161, 162)
BLDG. 53 (49, 50, 51, 157, 158, 159)
BLDG. 50 (40, 41, 42, 148, 149, 150)
ALPENTIAL LN
BLDG. 49 (37, 38, 39, 145, 146, 147)
BLDG. 46 (29, 30, 136, 137, 138)
BLDG. 56 (58, 59, 60, 166, 167, 168)
BLDG. 55 (55, 56, 57, 163, 164, 165)
LOT 1
BLDG. 52 (46, 47, 48, 154, 155, 156)
BLDG. 51 (43, 44, 45, 151, 152, 153)
SPRINGVALE LN
BLDG. 48 (34, 35, 36, 142, 143, 144)
BLDG. 47 (31, 32, 33, 139, 140, 141)
PAPILLION
CM 192/1
ST

DATA: CM 187/10

MB 412/38-40 TRACT MAP NO. 32475
CM 192/1-61 LOTS 1,C #0537771 08/21/07

ASSESSOR'S MAP BK392 PG.27
Riverside County, Calif.

Nov 2007

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NOV 29 2007

POR. SE 34 T.6S., R.3W
CITY OF MURRIETA

T.R.A. 024-141

392-272

FLOOR 1
SHEET 3 OF 4

1" = 60'
ANGLE = 45

VIRIDIAN

BLDG. 10 (1, 28, 29, 2, 30, 3)

BLDG. 11 (4, 31, 32, 5, 33, 6)

BLDG. 12 (34, 7, 35, 8, 36, 9)

BLDG. 13 (39, 12, 37, 10, 38, 11)

ST.

DARRINGTON

BLDG. 45 (133, 49, 134, 50, 135, 51)

BLDG. 44 (130, 46, 132, 48, 131, 47)

BLDG. 35 (103, 43, 104, 44, 105, 45)

BLDG. 34 (100, 40, 102, 42, 101, 41)

BLDG. 33 (99, 39, 98, 38, 97, 37)

CM 192/1

LOT 1

LOT C

HAZELHURST

LOGANBERRY AVE.

BLDG. 16 (19, 46, 47, 20, 48, 21)

BLDG. 15 (16, 43, 44, 17, 45, 18)

BLDG. 14 (13, 40, 42, 15, 41, 14)

RD.

BLDG. 18 (52, 25, 53, 26, 54, 27)

BLDG. 17 (22, 49, 51, 24, 50, 23)

BLDG. 19 (56, 29, 55, 28, 57, 30)

BLDG. 20 (58, 31, 60, 33, 59, 32)

BLDG. 21 (61, 34, 63, 36, 62, 35)

McELWAIN

MB 412/38-40 TRACT MAP NO. 32475
CM 192/1-61 LOTS 1,C #0537771 08/21/07

DATA: CM 187/10

ASSESSOR'S MAP BK392 PG.27
Riverside County, Calif.

Nov 2007

THIS MAP WAS PREPARED FOR ASSESSMENT PURPOSES ONLY. NO LIABILITY IS ASSUMED FOR THE ACCURACY OF THE DATA SHOWN. ASSESSOR'S PARCEL MAY NOT COMPLY WITH LOCAL LOT-SPLIT OR BUILDING SITE ORDINANCES.

NOV 29 2007

POR. SE 34 T.6S., R.3W
CITY OF MURRIETA

T.R.A. 024-141

392-273

FLOOR 1
SHEET 4 OF 4

1" = 60'
ANGLE = 0

CM192/1

WOBURN CT

BLDG. 67: 73 199 200 201 74 75
BLDG. 62: 58 184 186 185 60 59
BLDG. 66: 197 198 71 72 70 196
BLDG. 63: 189 188 63 62 61 187

CHARLESTON CT

ST

LOT 1

BLDG. 40: 119 47 118 120 48 46
BLDG. 41: 121 49 50 122 51 123
BLDG. 42: 125 53 124 126 54 52
BLDG. 43: 127 55 56 128 57 129
BLDG. 39: 117 45 115 116 44 43
BLDG. 38: 112 40 42 114 41 113
BLDG. 37: 111 39 109 110 38 37
BLDG. 36: 106 34 36 108 35 107
BLDG. 26: 76 13 15 78 14 77
BLDG. 27: 79 16 18 81 17 80
BLDG. 28: 83 20 84 21 19 82
BLDG. 29: 86 23 87 24 22 85
BLDG. 30: 89 26 90 27 25 88
BLDG. 31: 92 29 93 30 28 91
BLDG. 32: 95 32 96 33 31 94

SATTERLE LN
ELLISON LN
LAJUNE

CM192/1

HAZELHURST ST

LOT C

LOT 1

BLDG. 65: 67 193 194 195 68 69
BLDG. 64: 64 190 192 191 66 65
BLDG. 25: 73 10 75 74 12 11
BLDG. 24: 7 70 71 72 8 9
BLDG. 23: 4 67 69 68 6 5
BLDG. 22: 1 64 66 65 3 2

MAPLE VALLEY AVE.

LOT 1

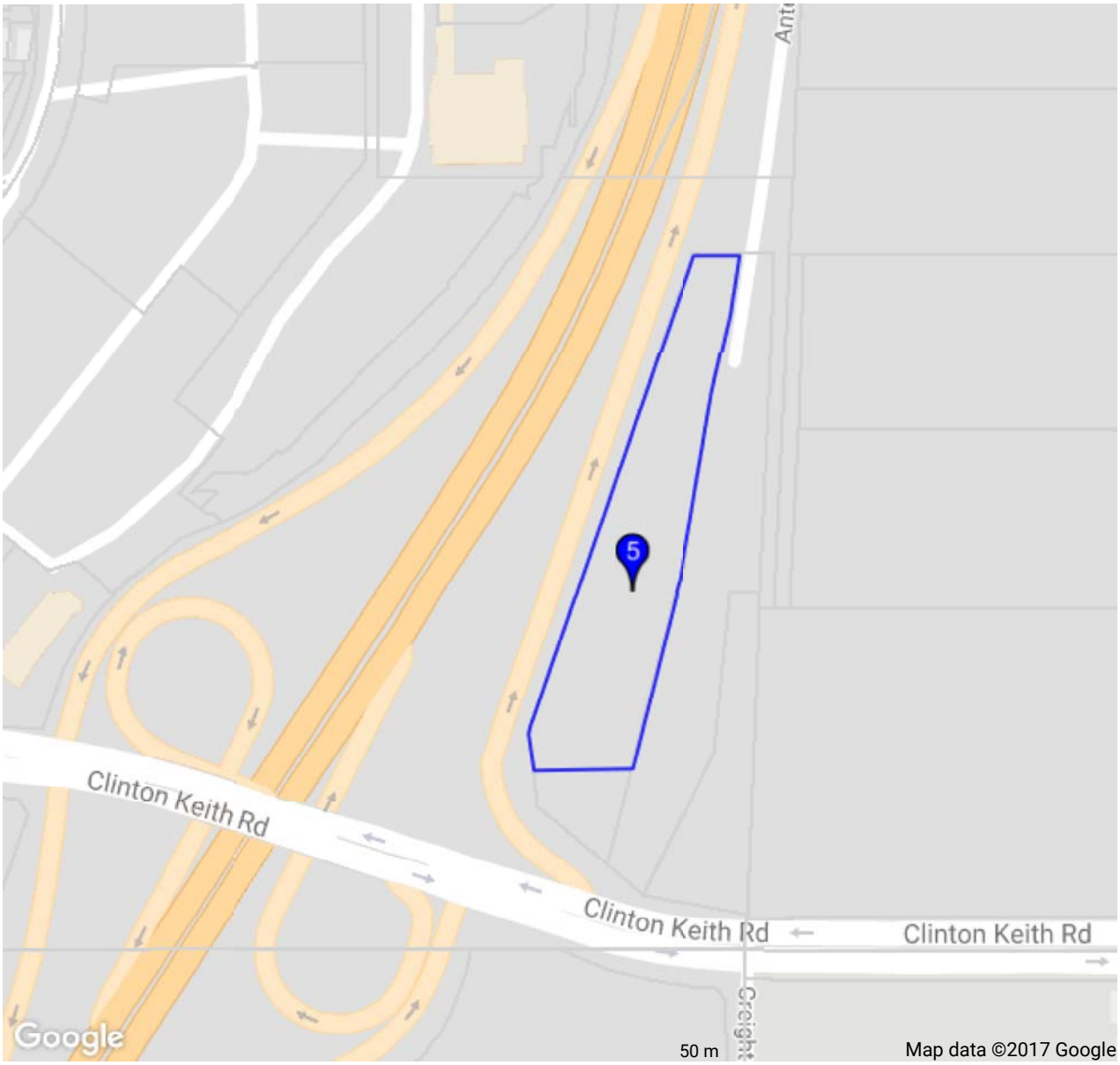
MB 412/38-40 TRACT MAP NO. 32475
CM 192/1-61 LOTS 1,C #0537771 08/21/07

DATA: CM 187/10

ASSESSOR'S MAP BK392 PG.27
Riverside County, Calif.

ATV

Nov 2007



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PARCELQUEST

☑ 5 Property Address: MURRIETA CA 92562

Ownership

County:	**RIVERSIDE, CA**
Assessor:	**PETER ALDANA, ASSESSOR**
Parcel # (APN):	**392-270-031**
Parcel Status:	**ACTIVE**
Owner Name:	**CURCI TURNER CO VAL VISTA ESTATES INC**
Mailing Address:	**717 LIDO PARK DR NEWPORT BEACH CA 92663**
Legal Description:	**3.43 ACRES M/L IN POR SE 1/4 OF SEC 34 T6S R3W FOR TOTAL DESCRIPTION SEE ASSESSORS MAPS**

Assessment

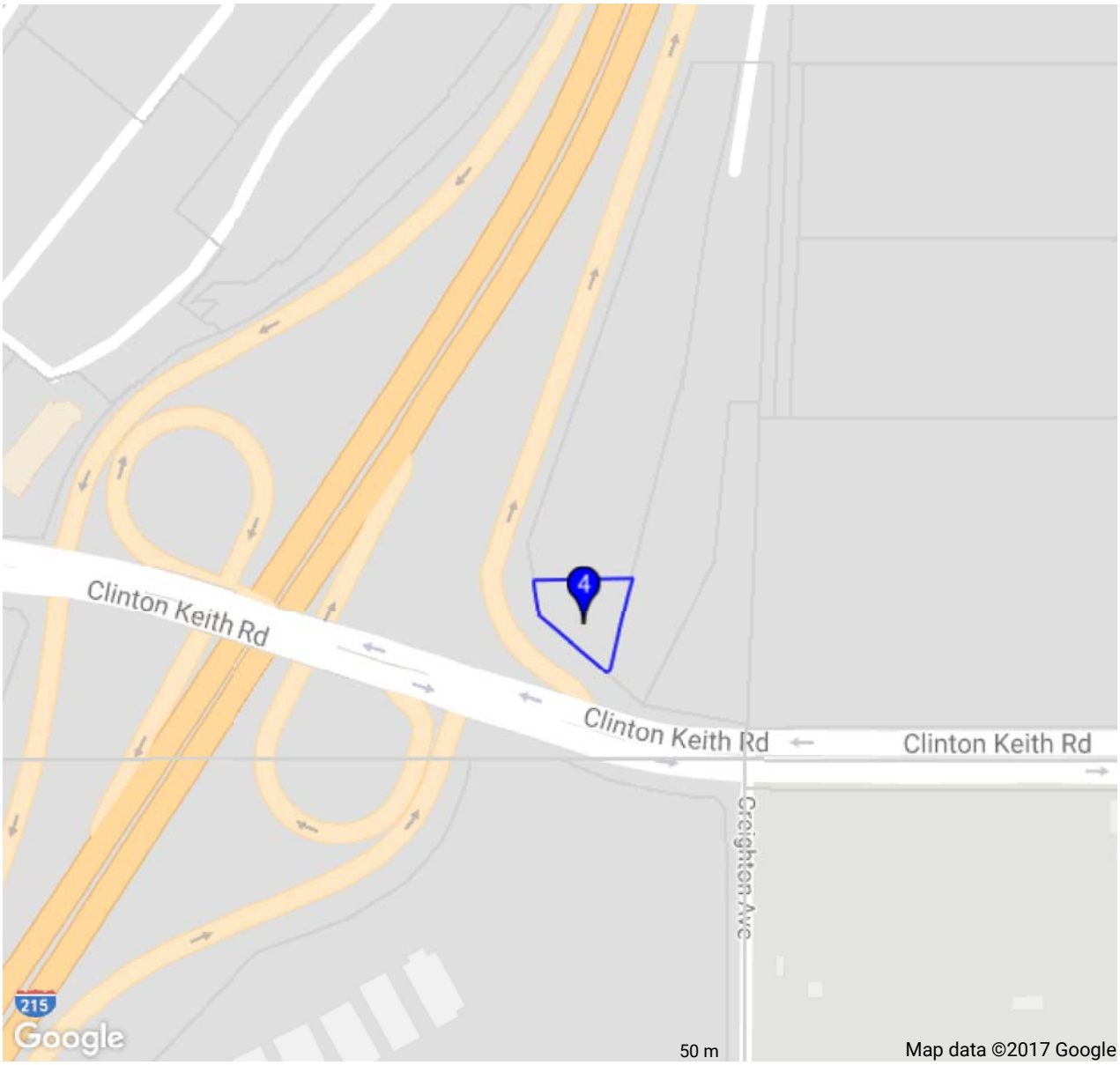
Total Value:	**$649,850**	Use Code:	**CY**	Use Type:	**VACANT**
Land Value:	**$649,850**	Tax Rate Area:	**024-141**	Zoning:	
Impr Value:		Year Assd:	**2017**	Census Tract:	**432.78/4**
Other Value:		Property Tax:		Price/SqFt:	
% Improved:	**0%**	Delinquent Yr:			
Exempt Amt:		HO Exempt:	**N**		

Sale History

	Sale 1	Sale 2	Sale 3	Transfer
Document Date:	**01/11/2006**			**03/00/2013**
Document Number:	**0025117**			**0129241**
Document Type:	**GRANT DEED**			
Transfer Amount:				
Seller (Grantor):				

Property Characteristics

Bedrooms:		Fireplace:		Units:	
Baths (Full):		A/C:		Stories:	
Baths (Half):		Heating:		Quality:	
Total Rooms:		Pool:		Building Class:	
Bldg/Liv Area:		Park Type:		Condition:	
Lot Acres:	**3.430**	Spaces:		Site Influence:	
Lot SqFt:	**149,410**	Garage SqFt:		Timber Preserve:	
Year Built:				Ag Preserve:	
Effective Year:					



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Ownership

County:

Assessor:

Parcel # (APN):

Parcel Status:

Owner Name:

Mailing Address:

Legal Description:

Assessment

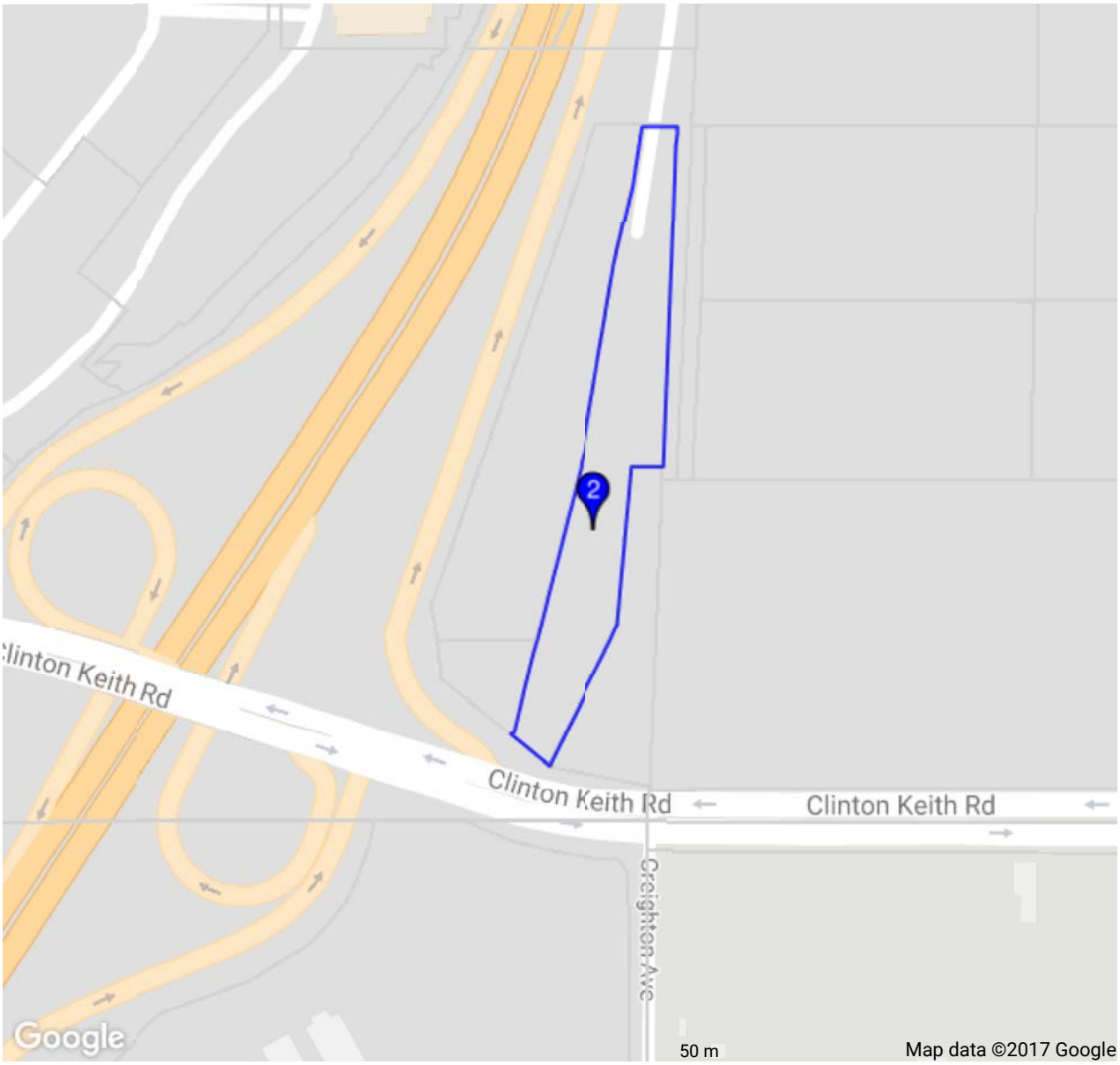
Total Value:	Use Code:	Use Type:
Land Value:	Tax Rate Area:	Zoning:
Impr Value:	Year Assd:	Census Tract:
Other Value:	Property Tax:	Price/SqFt:
% Improved:	Delinquent Yr:	
Exempt Amt:	HO Exempt:	

Sale History

	Sale 1	Sale 2	Sale 3	Transfer
Document Date:				
Document Number:				
Document Type:				
Transfer Amount:				
Seller (Grantor):				

Property Characteristics

Bedrooms:	Fireplace:	Units:
Baths (Full):	A/C:	Stories:
Baths (Half):	Heating:	Quality:
Total Rooms:	Pool:	Building Class:
Bldg/Liv Area:	Park Type:	Condition:
Lot Acres:	Spaces:	Site Influence:
Lot SqFt:	Garage SqFt:	Timber Preserve:
Year Built:		Ag Preserve:
Effective Year:		



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PARCELQUEST

☑ 2 Property Address: MURRIETA CA 92562

Ownership

County:	**RIVERSIDE, CA**
Assessor:	**PETER ALDANA, ASSESSOR**
Parcel # (APN):	**392-270-033**
Parcel Status:	**ACTIVE**
Owner Name:	**CURCI TURNER CO VAL VISTA ESTATES INC**
Mailing Address:	**717 LIDO PARK DR NEWPORT BEACH CA 92663**
Legal Description:	**3.06 ACRES M/L IN POR SE 1/4 OF SEC 34 T6S R3W FOR TOTAL DESCRIPTION SEE ASSESSORS MAPS**

Assessment

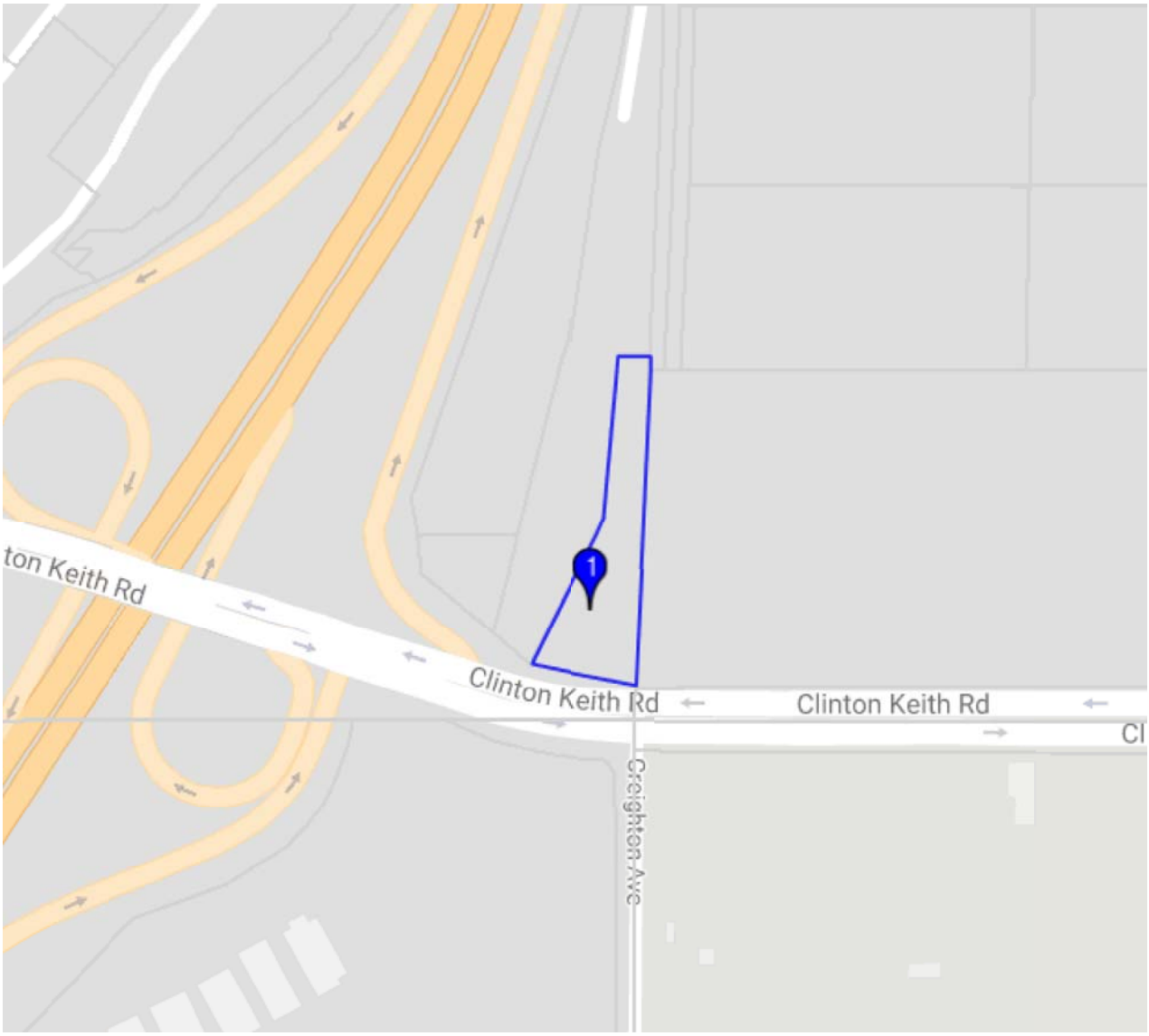
Total Value:	**$7**	Use Code:	**CY**	Use Type:	**VACANT**
Land Value:	**$7**	Tax Rate Area:	**024-141**	Zoning:	
Impr Value:		Year Assd:	**2017**	Census Tract:	**432.78/4**
Other Value:		Property Tax:		Price/SqFt:	
% Improved:	**0%**	Delinquent Yr:			
Exempt Amt:		HO Exempt:	**N**		

Sale History

	Sale 1	Sale 2	Sale 3	Transfer
Document Date:				**06/00/2009**
Document Number:				**0287264**
Document Type:				
Transfer Amount:				
Seller (Grantor):				

Property Characteristics

Bedrooms:		Fireplace:		Units:	
Baths (Full):		A/C:		Stories:	
Baths (Half):		Heating:		Quality:	
Total Rooms:		Pool:		Building Class:	
Bldg/Liv Area:		Park Type:		Condition:	
Lot Acres:	**3.060**	Spaces:		Site Influence:	
Lot SqFt:	**133,293**	Garage SqFt:		Timber Preserve:	
Year Built:				Ag Preserve:	
Effective Year:					



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PARCELQUEST

☑ 1 Property Address: MURRIETA CA 92562

Ownership

County:	**RIVERSIDE, CA**
Assessor:	**PETER ALDANA, ASSESSOR**
Parcel # (APN):	**392-270-030**
Parcel Status:	**ACTIVE**
Owner Name:	**CURCI TURNER CO VAL VISTA ESTATES INC**
Mailing Address:	**717 LIDO PARK DR NEWPORT BEACH CA 92663**
Legal Description:	**1.33 ACRES M/L IN POR SE 1/4 OF SEC 34 T6S R3W FOR TOTAL DESCRIPTION SEE ASSESSORS MAPS**

Assessment

Total Value:	**$257,408**	Use Code:	**CY**	Use Type:	**VACANT**
Land Value:	**$257,408**	Tax Rate Area:	**024-141**	Zoning:	
Impr Value:		Year Assd:	**2017**	Census Tract:	**432.78/4**
Other Value:		Property Tax:		Price/SqFt:	
% Improved:	**0%**	Delinquent Yr:			
Exempt Amt:		HO Exempt:	**N**		

Sale History

	Sale 1	Sale 2	Sale 3	Transfer
Document Date:	**01/11/2006**			**03/00/2013**
Document Number:	**0025117**			**0129243**
Document Type:	**GRANT DEED**			
Transfer Amount:				
Seller (Grantor):				

Property Characteristics

Bedrooms:		Fireplace:		Units:	
Baths (Full):		A/C:		Stories:	
Baths (Half):		Heating:		Quality:	
Total Rooms:		Pool:		Building Class:	
Bldg/Liv Area:		Park Type:		Condition:	
Lot Acres:	**1.330**	Spaces:		Site Influence:	
Lot SqFt:	**57,934**	Garage SqFt:		Timber Preserve:	
Year Built:				Ag Preserve:	
Effective Year:					

Amended
07/10/2017

First American Title Insurance Company

National Commercial Services

18500 Von Karman Ave, Suite 600
Irvine, CA 92612

July 10, 2017

Walt Coursen
WH Coursen and Associates
3189A Airway Avenue, Suite 106
Costa Mesa, CA 92651
Phone: (714)546-3839
Fax:

Customer Reference:	APN: 392-27-30, 392-27-31, 392-27-32, 392-27-33
Title Officer:	Jeffery Paschal
Phone:	(949)885-2481
Fax No.:	
E-Mail:	JPaschal@firstam.com
Escrow Officer:	Daisy Howell
Phone:	(949)885-2467
Buyer:	Felicita Financial Corporation
Owner:	Val Vista Estates, Inc.
Property:	Vacant Land, Murrieta, CA

PRELIMINARY REPORT

In response to the above referenced application for a policy of title insurance, this company hereby reports that it is prepared to issue, or cause to be issued, as of the date hereof, a Policy or Policies of Title Insurance describing the land and the estate or interest therein hereinafter set forth, insuring against loss which may be sustained by reason of any defect, lien or encumbrance not shown or referred to as an Exception below or not excluded from coverage pursuant to the printed Schedules, Conditions and Stipulations of said Policy forms.

The printed Exceptions and Exclusions from the coverage and Limitations on Covered Risks of said policy or policies are set forth in Exhibit A attached. *The policy to be issued may contain an arbitration clause. When the Amount of Insurance is less than that set forth in the arbitration clause, all arbitrable matters shall be arbitrated at the option of either the Company or the Insured as the exclusive remedy of the parties.* Limitations on Covered Risks applicable to the CLTA and ALTA Homeowner's Policies of Title Insurance which establish a Deductible Amount and a Maximum Dollar Limit of Liability for certain coverages are also set forth in Exhibit A. Copies of the policy forms should be read. They are available from the office which issued this report.

Please read the exceptions shown or referred to below and the exceptions and exclusions set forth in Exhibit A of this report carefully. The exceptions and exclusions are meant to provide you with notice of matters which are not covered under the terms of the title insurance policy and should be carefully considered.

It is important to note that this preliminary report is not a written representation as to the condition of title and may not list all liens, defects, and encumbrances affecting title to the land.

This report (and any supplements or amendments hereto) is issued solely for the purpose of facilitating the issuance of a policy of title insurance and no liability is assumed hereby. If it is desired that liability be assumed prior to the issuance of a policy of title insurance, a Binder or Commitment should be requested.

Dated as of June 27, 2017 at 7:30 A.M.

The form of Policy of title insurance contemplated by this report is:

ALTA Extended Owner Policy - 2006 and ALTA Extended Loan Policy - 2006

A specific request should be made if another form or additional coverage is desired.

Title to said estate or interest at the date hereof is vested in:

Val Vista Estates, Inc., a California corporation, as to an undivided 2/3 interest and Curci-Turner Company, LLC, a California limited liability company, as to an undivided 1/3 interest

The estate or interest in the land hereinafter described or referred to covered by this Report is:

Fee Simple

The Land referred to herein is described as follows:

(See attached Legal Description)

At the date hereof exceptions to coverage in addition to the printed Exceptions and Exclusions in said policy form would be as follows:

1. General and special taxes and assessments for the fiscal year 2017-2018, a lien not yet due or payable.

2. This item has been intentionally deleted.

3. This item has been intentionally deleted.

4. This item has been intentionally deleted.

5. This item has been intentionally deleted.

6. The lien of supplemental taxes, if any, assessed pursuant to Chapter 3.5 commencing with Section 75 of the California Revenue and Taxation Code.

7. The lien of special tax for the following municipal improvement bond, which tax is collected with the county taxes.
   District: 18

8. Abutter's right of ingress and egress to or from freeway have been relinquished in the document recorded August 12, 1976 as Instrument No. 118890 of Official Records.

   (Affects Parcel 1C)

9. Abutter's right of ingress and egress to or from freeway have been relinquished in the document recorded August 12, 1976 as Instrument No. 118892 of Official Records.

(Affects Parcels 2 and 3)

10. An easement for overhead and underground electrical supply systems and communication systems for distributing electrical energy and for transmitting intelligence by electrical means and incidental purposes, recorded August 12, 1976 as Instrument No. 118893 of Official Records.

In Favor of: Southern California Edison Company, a corporation, its successors and assigns
Affects: As described therein

11. The terms and provisions contained in the document entitled "Certificate of Completion/Statement of Boundary Change" recorded July 07, 1992 as Instrument No. 250598 of Official Records.

12. This item has been intentionally deleted.

13. Abutter's right of ingress and egress to or from the adjacent state freeway have been relinquished in the document recorded August 21, 2002 as Instrument No. 2002-462701 of Official Records.

14. An easement for construction of Clinton Keith Road and Antelope Road and incidental purposes, recorded June 30, 2003 as Instrument No. 2003-481305 of Official Records.

In Favor of: The City of Murrieta, a municipal corporation
Affects: Parcel 1C

15. An easement for construction of Clinton Keith Road and Antelope Road and incidental purposes, recorded June 30, 2003 as Instrument No. 2003-481306 of Official Records.

In Favor of: The City of Murrieta, a municipal corporation
Affects: Parcel 1B

16. An easement for public street purposes and incidental purposes, recorded June 30, 2003 as Instrument No. 2003-481307 of Official Records.

In Favor of: The City of Murrieta, a municipal corporation
Affects: Parcel 1C

17. The effect of a map purporting to show the land and other property, filed, in Book 116, Page 39 and 40 of Record of Surveys.

18. An easement for road, public utility purposes and incidental purposes, recorded November 24, 2004 as Instrument No. 2004-0937977 of Official Records.

In Favor of: The City of Murrieta, a municipal corporation
Affects: Parcel 1A

19. The rights, if any, of a city, public utility or special district to preserve a public easement in Antelope Road as the same was vacated by the document recorded June 05, 2009 as Instrument No. 2009-0287264 of Official Records.

20. An easement for public utility facilities and incidental purposes, recorded June 05, 2009 as Instrument No. 2009-0287264 of Official Records.
In Favor of: Time Warner Cable
Affects: As described therein

21. An easement for public utility facilities and incidental purposes, recorded June 05, 2009 as Instrument No. 2009-0287264 of Official Records.
In Favor of: Eastern Municipal Water District
Affects: As described therein

22. An easement for public utility facilities and incidental purposes, recorded June 05, 2009 as Instrument No. 2009-0287264 of Official Records.
In Favor of: Southern California Edison Company, a corporation
Affects: As described therein

23. An easement for public utility facilities and incidental purposes, recorded June 05, 2009 as Instrument No. 2009-0287264 of Official Records.
In Favor of: AT&T
Affects: As described therein

24. This item has been intentionally deleted.

25. This item has been intentionally deleted.

26. An easement for Utility Purposes and incidental purposes, recorded October 6, 2015 as Instrument No. 2015-0442116 of Official Records.
In Favor of: Curci-Turner Company, LLC, a California limited liability company
Affects: as described therein

Re-recorded September 15, 2016 as Instrument No. 2016-0401210, of Official Records.

27. This item has been intentionally deleted.

INFORMATIONAL NOTES

1. General and special taxes and assessments for the fiscal year 2016-2017.

First Installment:	$1,489.71, PAID
Penalty:	$0.00
Second Installment:	$1,489.71, PAID
Penalty:	$0.00
Tax Rate Area:	024-142
A. P. No.:	392-270-030-6

2. General and special taxes and assessments for the fiscal year 2016-2017.

First Installment:	$3,729.60, PAID
Penalty:	$0.00
Second Installment:	$3,729.60, PAID
Penalty:	$0.00
Tax Rate Area:	024-142
A. P. No.:	392-270-031-7

3. General and special taxes and assessments for the fiscal year 2016-2017.

First Installment:	$919.59, PAID
Penalty:	$0.00
Second Installment:	$919.59, PAID
Penalty:	$0.00
Tax Rate Area:	024-142
A. P. No.:	392-270-032-8

4. General and special taxes and assessments for the fiscal year 2016-2017.

First Installment:	$51.82, PAID
Penalty:	$0.00
Second Installment:	$51.82, PAID
Penalty:	$0.00
Tax Rate Area:	024-142
A. P. No.:	392-270-033-9

5. The property covered by this report is vacant land.

6. According to the public records, there has been no conveyance of the land within a period of twenty-four months prior to the date of this report, except as follows:

   None

7. This preliminary report/commitment was prepared based upon an application for a policy of title insurance that identified land by street address or assessor's parcel number only. It is the responsibility of the applicant to determine whether the land referred to herein is in fact the land that is to be described in the policy or policies to be issued.

8. Should this report be used to facilitate your transaction, we must be provided with the following prior to the issuance of the policy:

   A. WITH RESPECT TO A CORPORATION:
      1. A certificate of good standing of recent date issued by the Secretary of State of the corporation's state of domicile.
      2. A certificate copy of a resolution of the Board of Directors authorizing the contemplated transaction and designating which corporate officers shall have the power to execute on behalf of the corporation.
      3. Requirements which the Company may impose following its review of the above material and other information which the Company may require.

   B. WITH RESPECT TO A CALIFORNIA LIMITED PARTNERSHIP:
      1. A certified copy of the certificate of limited partnership (form LP-1) and any amendments thereto (form LP-2) to be recorded in the public records;
      2. A full copy of the partnership agreement and any amendments;
      3. Satisfactory evidence of the consent of a majority in interest of the limited partners to the contemplated transaction;
      4. Requirements which the Company may impose following its review of the above material and other information which the Company may require.

   C. WITH RESPECT TO A FOREIGN LIMITED PARTNERSHIP:
      1. A certified copy of the application for registration, foreign limited partnership (form LP-5) and any amendments thereto (form LP-6) to be recorded in the public records;
      2. A full copy of the partnership agreement and any amendment;
      3. Satisfactory evidence of the consent of a majority in interest of the limited partners to the contemplated transaction;
      4. Requirements which the Company may impose following its review of the above material and other information which the Company may require.

   D. WITH RESPECT TO A GENERAL PARTNERSHIP:
      1. A certified copy of a statement of partnership authority pursuant to Section 16303 of the California Corporation Code (form GP-I), executed by at least two partners, and a certified copy of any amendments to such statement (form GP-7), to be recorded in the public records;
      2. A full copy of the partnership agreement and any amendments;
      3. Requirements which the Company may impose following its review of the above material required herein and other information which the Company may require.

   E. WITH RESPECT TO A LIMITED LIABILITY COMPANY:
      1. A copy of its operating agreement and any amendments thereto;
      2. If it is a California limited liability company, a certified copy of its articles of organization (LLC-1) and any certificate of correction (LLC-11), certificate of amendment (LLC-2), or restatement of articles of organization (LLC-10) to be recorded in the public records;
      3. If it is a foreign limited liability company, a certified copy of its application for registration (LLC-5) to be recorded in the public records;
      4. With respect to any deed, deed of trust, lease, subordination agreement or other document or instrument executed by such limited liability company and presented for recordation by the Company or upon which the Company is asked to rely, such document or instrument must be executed in accordance with one of the following, as appropriate:

(i) If the limited liability company properly operates through officers appointed or elected pursuant to the terms of a written operating agreement, such documents must be executed by at least two duly elected or appointed officers, as follows: the chairman of the board, the president or any vice president, and any secretary, assistant secretary, the chief financial officer or any assistant treasurer;

(ii) If the limited liability company properly operates through a manager or managers identified in the articles of organization and/or duly elected pursuant to the terms of a written operating agreement, such document must be executed by at least two such managers or by one manager if the limited liability company properly operates with the existence of only one manager.

5. Requirements which the Company may impose following its review of the above material and other information which the Company may require.

F. WITH RESPECT TO A TRUST:

1. A certification pursuant to Section 18100.5 of the California Probate Code in a form satisfactory to the Company.
2. Copies of those excerpts from the original trust documents and amendments thereto which designate the trustee and confer upon the trustee the power to act in the pending transaction.
3. Other requirements which the Company may impose following its review of the material require herein and other information which the Company may require.

G. WITH RESPECT TO INDIVIDUALS:

1. A statement of information.

The map attached, if any, may or may not be a survey of the land depicted hereon. First American Title Insurance Company expressly disclaims any liability for loss or damage which may result from reliance on this map except to the extent coverage for such loss or damage is expressly provided by the terms and provisions of the title insurance policy, if any, to which this map is attached.

*****To obtain wire instructions for deposit of funds to your escrow file please contact your Escrow Officer.******

LEGAL DESCRIPTION

Real property in the City of Murrieta, County of Riverside, State of California, described as follows:

PARCEL 1:

THAT PORTION OF THE SOUTH ½ OF THE SOUTHEAST ¼ OF THE SOUTHEAST ¼ OF SECTION 34, TOWNSHIP 6 SOUTH RANGE 3 WEST, SAN BERNARDINO BASE AND MERIDIAN ACCORDING TO THE OFFICIAL PLAT THEREOF, DESCRIBED AS FOLLOWS:

BEGINNING AT THE SOUTHEAST CORNER OF SAID SECTION 34; THENCE NORTH ALONG THE EASTERLY LINE OF SAID SECTION 330 FEET; THENCE WESTERLY PARALLEL TO THE SOUTHERLY LINE OF SAID SECTION TO THE CENTERLINE OF COUNTY HIGHWAY; THENCE SOUTHWESTERLY ALONG SAID CENTER LINE TO THE SOUTHERLY LINE OF SAID SECTION 34; THENCE EASTERLY ALONG SOUTHERLY LINE OF SAID SECTION TO POINT OF BEGINNING.

EXCEPTING THEREFROM THAT PORTION CONVEYED TO THE STATE OF CALIFORNIA, IN DEED RECORDED AUGUST 12, 1976 AS INSTRUMENT NO. 118890 OF OFFICIAL RECORDS OF RIVERSIDE COUNTY, CALIFORNIA.

MORE PARTICULARLY DESCRIBED AS THOSE PORTIONS OF SECTION 34, TOWNSHIP 6 SOUTH RANGE 3 WEST, SAN BERNARDINO BASE AND MERIDIAN, ACCORDING TO THE OFFICIAL PLAT THEREOF DESCRIBED AS:

PARCEL 1A:

BEGINNING AT THE SOUTHEAST CORNER OF SAID SECTION 34; THENCE NORTH 2° 55' 00" EAST 30.97 FEET, ALONG THE EASTERLY LINE OF SAID SECTION 34 AS DESCRIBED IN SAID INSTRUMENT NO. 118890 TO THE TRUE POINT OF BEGINNING; THENCE CONTINUING ALONG SAID EASTERLY LINE OF SECTION 34 NORTH 2° 55' 00" EAST, 299.03 FEET, TO A POINT WHICH IS 330.00 FEET NORTHERLY OF SAID SOUTHEAST CORNER TO A POINT DESCRIBED IN SAID INSTRUMENT NO. 118707; THENCE PARALLEL TO THE SOUTHERLY LINE OF SAID SECTION 34, AS DESCRIBED IN SAID INSTRUMENT NO. 118707, SOUTH 89° 41' 07" WEST 90.14 FEET MORE OR LESS TO A POINT ON A LINE DESCRIBED IN SAID INSTRUMENT NO. 118890; THENCE SOUTH 26° 56' 31" WEST 250.86 FEET ALONG SAID LINE, TO AN ANGLE POINT DESCRIBED IN SAID INSTRUMENT NO. 118890; THENCE CONTINUING ALONG A LINE DESCRIBED IN SAID INSTRUMENT NO. 118890, SOUTH 19° 21' 30" WEST 52.31 FEET TO A POINT ON A NON-TANGENT CURVE DESCRIBED IN SAID INSTRUMENT NO. 118890, BEING CONCAVE NORTHEASTERLY HAVING A RADIUS OF 970.00 FEET, TO WHICH A RADIAL BEARS SOUTH 13° 11' 40" WEST; THENCE EASTERLY ALONG SAID CURVE THROUGH A CENTRAL ANGLE OF 10° 13' 56" AND ARC DISTANCE OF 173.23 FEET TO A POINT ON A NON-TANGENT LINE, SAID LINE ALSO BEING THE EASTERLY SECTION LINE OF SAID SECTION 34, SAID POINT ALSO BEING THE TRUE POINT OF BEGINNING.

PARCEL 1B:

BEGINNING AT THE SOUTHEAST CORNER OF SAID SECTION 34; THENCE ALONG THE SOUTH LINE OF SAID SECTION 34 AS DESCRIBED IN SAID INSTRUMENT NO. 118890, SOUTH 89° 33' 33" WEST 190.57 FEET; THENCE ALONG A LINE DESCRIBED IN SAID INSTRUMENT NO. 118890 NORTH 76° 03' 12" WEST, 320.95 FEET; THENCE CONTINUING ALONG A LINE DESCRIBED IN SAID INSTRUMENT NUMBER 118890 SOUTH 42° 27' 42" WEST 108.87 FEET, TO A POINT ON THE SOUTH SECTION LINE OF SAID SECTION 34; THENCE WESTERLY ALONG SAID SOUTH

SECTION LINE AS DESCRIBED IN INSTRUMENT NO. 118890 SOUTH 89° 33' 33" WEST 349.47 FEET TO A POINT IN THE SOUTHEASTERLY LINE OF THAT PARCEL OF LAND CONVEYED TO THE STATE OF CALIFORNIA BY DEED RECORDED SEPTEMBER 18, 1950 AS INSTRUMENT NUMBER 2043 IN BOOK 1204 PAGE 556 OFFICIAL RECORDS OF RIVERSIDE COUNTY, CALIFORNIA; THENCE ALONG SAID SOUTHEASTERLY LINE THE FOLLOWING TWO COURSES; (1) NORTH 24° 31' 54" EAST 181.15 FEET MORE OR LESS; (2) NORTH 33° 44' 30" EAST 200.70 FEET MORE OR LESS TO THE NORTH LINE OF THAT PARCEL OF LAND CONVEYED TO CHARLES E. AND FREDRICK FERRETT BY DEED RECORDED SEPTEMBER 30, 1964, AS INSTRUMENT NO.118707; THENCE ALONG SAID NORTH LINE NORTH 89° 41' 07" EAST 301.33 FEET MORE OR LESS, TO A POINT ON SAID INSTRUMENT NUMBER 118890, BEING THE TRUE POINT OF BEGINNING; THENCE SOUTH 19° 13' 06" WEST, 121.63 FEET, ALONG A LINE DESCRIBED IN SAID INSTRUMENT NO. 118890, THENCE;

CONTINUING ALONG A LINE DESCRIBED IN SAID INSTRUMENT NO. 118890, SOUTH 08° 28' 08" EAST, 40.88 FEET, THENCE;

CONTINUING ALONG A LINE DESCRIBED IN SAID INSTRUMENT NO. 118890, SOUTH 71° 55' 04" EAST, 150.00 FEET, THENCE;

CONTINUING ALONG A LINE DESCRIBED IN SAID INSTRUMENT NO. 118890, NORTH 60° 59' 32" EAST, 86.70 FEET, THENCE;

CONTINUING ALONG A LINE DESCRIBED IN SAID INSTRUMENT NO. 118890, NORTH 14° 34' 07" EAST, 145.46 FEET, THENCE;

CONTINUING ALONG A LINE DESCRIBED IN SAID INSTRUMENT NO. 118890, NORTH 14° 49' 04" EAST 20.95 FEET, TO A POINT ON THE NORTHERLY LINE DESCRIBED IN SAID INSTRUMENT NO. 118707, THENCE;

WESTERLY ALONG SAID NORTHERLY LINE, PARALLEL TO THE SOUTHERLY LINE OF SAID SECTION 34 DESCRIBED IN SAID INSTRUMENT 118707 SOUTH 89° 41' 07" WEST 226.35 FEET MORE OR LESS TO THE TRUE POINT OF BEGINNING.

PARCEL 1C:

BEGINNING AT THE SOUTHEAST CORNER OF SAID SECTION 34; THENCE ALONG THE SOUTH LINE OF SAID SECTION 34 AS DESCRIBED IN SAID INSTRUMENT NO. 118890, SOUTH 89° 33' 33" WEST 190.57 FEET, TO THE TRUE POINT OF BEGINNING; THENCE ALONG A LINE DESCRIBED IN SAID INSTRUMENT NUMBER 118890 NORTH 76° 03' 12" WEST, 320.95 FEET; THENCE CONTINUING ALONG A LINE DESCRIBED IN SAID INSTRUMENT NUMBER 118890 SOUTH 42° 27' 42" WEST 108.87 FEET, TO A POINT ON THE SOUTH SECTION LINE OF SAID SECTION 34; THENCE EASTERLY ALONG THE SOUTHERLY SECTION LINE OF SAID SECTION 34, NORTH 89° 41' 07" EAST 384.99 FEET MORE OR LESS TO THE TRUE POINT OF BEGINNING, THERE SHALL BE NO ABUTTERS RIGHTS OF ACCESS APPURTENANT TO THE ABOVE DESCRIBED PARCELS IN AND TO THE ADJACENT STATE FREEWAY.

PARCEL 2:

THAT PORTION OF THE SOUTH ½ OF THE SOUTHEAST ¼ OF SECTION 34, TOWNSHIP 6 SOUTH, RANGE 3 WEST, SAN BERNARDINO MERIDIAN, ACCORDING TO THE OFFICIAL PLAT THEREOF, INCLUDED WITHIN THE FOLLOWING DESCRIBED LAND:

BEGINNING AT THE SOUTHEASTERLY CORNER OF THE NORTH ½ OF THE SOUTH ½ OF SAID SOUTH ½ OF THE SOUTHEAST ¼ OF SAID SECTION 34; THENCE ALONG THE EAST LINE OF SAID SECTION, NORTH 2° 55' 00" EAST 329.14 FEET TO THE NORTHEASTERLY CORNER OF

THE SOUTH ½ THE SOUTH ½ OF SAID SOUTHEAST ¼; THENCE ALONG THE NORTH LINE OF SAID SOUTH ½ OF THE SOUTH ½ OF THE SOUTHEAST ¼, SOUTH 89° 48' 35" WEST 57.83 FEET; THENCE SOUTH 5° 49' 59" WEST 292.52 FEET; THENCE SOUTH 26° 56' 31" WEST 42.64 FEET TO THE SOUTH LINE OF SAID NORTH ½ OF THE SOUTH ½ OF THE SOUTH ½ OF SAID SOUTHEAST ¼; THENCE ALONG SAID SOUTH LINE, NORTH 89° 41' 07" EAST 90.14 FEET TO THE POINT OF BEGINNING.

PARCEL 3:

THAT PORTION OF THE SOUTH ½ OF THE SOUTHEAST ¼ OF SECTION 34, TOWNSHIP 6 SOUTH, RANGE 3 WEST, SAN BERNARDINO MERIDIAN, ACCORDING TO THE OFFICIAL PLAT THEREOF, INCLUDED WITHIN THE FOLLOWING DESCRIBED LAND:

BEGINNING AT A POINT IN THE SOUTH LINE OF THE NORTH ½ OF THE SOUTH ½ OF SAID SOUTH ½ OF THE SOUTHEAST ¼ OF SECTION 34, DISTANT ALONG SAID SOUTH LINE, SOUTH 89° 41' 07" WEST 227.41 FEET FROM THE EAST LINE OF SAID SECTION; THENCE ALONG SAID SOUTH LINE SOUTH 89° 41' 07" WEST 226.35 FEET; THENCE NORTH 19° 13' 06" EAST 1014.54 FEET; THENCE NORTH 53° 47' 22" EAST 1.36 FEET; THENCE SOUTH 89° 56' 46" EAST 102.91 FEET; THENCE SOUTH 10° 05' 05" WEST 109.03 FEET; THENCE SOUTH 13° 53' 56" WEST 150.33 FEET; THENCE SOUTH 10° 05' 05" WEST 350.00 FEET; THENCE SOUTH 14° 49' 04" WEST 371.96 FEET TO THE POINT OF BEGINNING.

THERE SHALL BE NO ABUTTERS RIGHTS OF ACCESS APPURTENANT TO THE ABOVE DESCRIBED PARCELS IN AND TO THE ADJACENT STATE FREEWAY.

ALL OF SAID LAND AS DESCRIBED IN A CERTIFICATE OF COMPLIANCE CC-02-001, RECORDED AUGUST 21, 2002 AS INSTRUMENT NO. 2002-462701 OF OFFICIAL RECORDS.

EXCEPTING THEREFROM THOSE PORTIONS OF SAID LAND AS CONVEYED TO THE STATE OF CALIFORNIA, BY DEED RECORDED MARCH 18, 2013 AS INSTRUMENT NO. 2013-0129243.

PARCEL 4:

THAT PORTION OF ANTELOPE ROAD, BEING A PORTION OF THE SOUTH HALF OF THE SOUTHEAST QUARTER OF SECTION 34, TOWNSHIP 6 SOUTH, RANGE 3 WEST, SAN BERNARDINO BASE AND MERIDIAN, IN THE CITY OF MURRIETA, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, DESCRIBED AS FOLLOWS:

BOUNDED NORTHERLY BY THE EASTERLY PROLONGATION OF THE NORTHERLY LINE OF THE LAND DESCRIBED AS PARCEL 3 IN A CERTIFICATE OF COMPLIANCE CC-02-001, RECORDED AUGUST 21, 2002 AS INSTRUMENT NO. 2002-462701 OF OFFICIAL RECORDS AND BOUNDED SOUTHERLY BY THE FOLLOWING DESCRIBED LINE:

BEGINNING AT AN ANGLE POINT IN THE NORTHWESTERLY LINE OF PARCEL 1A IN SAID CERTIFICATE OF COMPLIANCE; THENCE NORTH 49° 55" 20' WEST 91.81 FEET TO THE SOUTHEASTERLY LINE OF PARCEL 1B IN SAID CERTIFICATE OF COMPLIANCE.

ALSO SHOWN ON RECORD OF SURVEY MAP RECORDED OF SURVEY MAP RECORDED DECEMBER 01, 2003 IN BOOK 116, PAGES 39 AND 40 OF RECORDS OF SURVEY IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

APN(s): 392-270-030 through 033

The First American Corporation
First American Title Company
Privacy Policy

We Are Committed to Safeguarding Customer Information

In order to better serve your needs now and in the future, we may ask you to provide us with certain information. We understand that you may be concerned about what we will do with such information - particularly any personal or financial information. We agree that you have a right to know how we will utilize the personal information you provide to us. Therefore, together with our parent company, The First American Corporation, we have adopted this Privacy Policy to govern the use and handling of your personal information.

Applicability

This Privacy Policy governs our use of the information which you provide to us. It does not govern the manner in which we may use information we have obtained from any other source, such as information obtained from a public record or from another person or entity. First American has also adopted broader guidelines that govern our use of personal information regardless of its source. First American calls these guidelines its Fair Information Values, a copy of which can be found on our website at www.firstam.com.

Types of Information

Depending upon which of our services you are utilizing, the types of nonpublic personal information that we may collect include:

- Information we receive from you on applications, forms and in other communications to us, whether in writing, in person, by telephone or any other means;
- Information about your transactions with us, our affiliated companies, or others; and
- Information we receive from a consumer reporting agency.

Use of Information

We request information from you for our own legitimate business purposes and not for the benefit of any nonaffiliated party. Therefore, we will not release your information to nonaffiliated parties except: (1) as necessary for us to provide the product or service you have requested of us; or (2) as permitted by law. We may, however, store such information indefinitely, including the period after which any customer relationship has ceased. Such information may be used for any internal purpose, such as quality control efforts or customer analysis. We may also provide all of the types of nonpublic personal information listed above to one or more of our affiliated companies. Such affiliated companies include financial service providers, such as title insurers, property and casualty insurers, and trust and investment advisory companies, or companies involved in real estate services, such as appraisal companies, home warranty companies, and escrow companies. Furthermore, we may also provide all the information we collect, as described above, to companies that perform marketing services on our behalf, on behalf of our affiliated companies, or to other financial institutions with whom we or our affiliated companies have joint marketing agreements.

Former Customers

Even if you are no longer our customer, our Privacy Policy will continue to apply to you.

Confidentiality and Security

We will use our best efforts to ensure that no unauthorized parties have access to any of your information. We restrict access to nonpublic personal information about you to those individuals and entities who need to know that information to provide products or services to you. We will use our best efforts to train and oversee our employees and agents to ensure that your information will be handled responsibly and in accordance with this Privacy Policy and First American's Fair Information Values. We currently maintain physical, electronic, and procedural safeguards that comply with federal regulations to guard your nonpublic personal information.

CLTA/ALTA HOMEOWNER'S POLICY OF TITLE INSURANCE (02-03-10)

EXCLUSIONS

In addition to the Exceptions in Schedule B, You are not insured against loss, costs, attorneys' fees, and expenses resulting from:

1. Governmental police power, and the existence or violation of those portions of any law or government regulation concerning:
   (a) building; (d) improvements on the Land;
   (b) zoning; (e) land division; and
   (c) land use; (f) environmental protection.

   This Exclusion does not limit the coverage described in Covered Risk 8.a., 14, 15, 16, 18, 19, 20, 23 or 27.
2. The failure of Your existing structures, or any part of them, to be constructed in accordance with applicable building codes. This Exclusion does not limit the coverage described in Covered Risk 14 or 15.
3. The right to take the Land by condemning it. This Exclusion does not limit the coverage described in Covered Risk 17.
4. Risks:
   (a) that are created, allowed, or agreed to by You, whether or not they are recorded in the Public Records;
   (b) that are Known to You at the Policy Date, but not to Us, unless they are recorded in the Public Records at the Policy Date;
   (c) that result in no loss to You; or
   (d) that first occur after the Policy Date - this does not limit the coverage described in Covered Risk 7, 8.e., 25, 26, 27 or 28.
5. Failure to pay value for Your Title.
6. Lack of a right:
   (a) to any land outside the area specifically described and referred to in paragraph 3 of Schedule A; and
   (b) in streets, alleys, or waterways that touch the Land.
   This Exclusion does not limit the coverage described in Covered Risk 11 or 21.
7. The transfer of the Title to You is invalid as a preferential transfer or as a fraudulent transfer or conveyance under federal bankruptcy, state insolvency, or similar creditors' rights laws.

LIMITATIONS ON COVERED RISKS

Your insurance for the following Covered Risks is limited on the Owner's Coverage Statement as follows: For Covered Risk 16, 18, 19, and 21 Your Deductible Amount and Our Maximum Dollar Limit of Liability shown in Schedule A.

Your Deductible Amount	**Our Maximum Dollar Limit of Liability**
Covered Risk 16: 1% of Policy Amount or $2,500.00 (whichever is less)	$10,000.00
Covered Risk 18: 1% of Policy Amount or $5,000.00 (whichever is less)	$25,000.00
Covered Risk 19: 1% of Policy Amount or $5,000.00 (whichever is less)	$25,000.00
Covered Risk 21: 1% of Policy Amount or $2,500.00 (whichever is less)	$5,000.00

ALTA RESIDENTIAL TITLE INSURANCE POLICY (6-1-87)

EXCLUSIONS

In addition to the Exceptions in Schedule B, you are not insured against loss, costs, attorneys' fees, and expenses resulting from:

1. Governmental police power, and the existence or violation of any law or government regulation. This includes building and zoning ordinances and also laws and regulations concerning:
   (a) and use
   (b) improvements on the land
   (c) and division
   (d) environmental protection

   This exclusion does not apply to violations or the enforcement of these matters which appear in the public records at Policy Date.
   This exclusion does not limit the zoning coverage described in Items 12 and 13 of Covered Title Risks.
2. The right to take the land by condemning it, unless:
   (a) a notice of exercising the right appears in the public records on the Policy Date
   (b) the taking happened prior to the Policy Date and is binding on you if you bought the land without knowing of the taking

3. Title Risks:
   (a) that are created, allowed, or agreed to by you
   (b) that are known to you, but not to us, on the Policy Date -- unless they appeared in the public records
   (c) that result in no loss to you
   (d) that first affect your title after the Policy Date -- this does not limit the labor and material lien coverage in Item 8 of Covered Title Risks
4. Failure to pay value for your title.
5. Lack of a right:
   (a) to any land outside the area specifically described and referred to in Item 3 of Schedule A OR
   (b) in streets, alleys, or waterways that touch your land
   This exclusion does not limit the access coverage in Item 5 of Covered Title Risks.

2006 ALTA LOAN POLICY (06-17-06)

EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy, and the Company will not pay loss or damage, costs, attorneys' fees, or expenses that arise by reason of:

1. a. Any law, ordinance, permit, or governmental regulation (including those relating to building and zoning) restricting, regulating, prohibiting, or relating to
      i. the occupancy, use, or enjoyment of the Land;
      ii. the character, dimensions, or location of any improvement erected on the Land;
      iii. the subdivision of land; or
      iv. environmental protection;

      or the effect of any violation of these laws, ordinances, or governmental regulations. This Exclusion 1(a) does not modify or limit the coverage provided under Covered Risk 5.
   b. Any governmental police power. This Exclusion 1(b) does not modify or limit the coverage provided under Covered Risk 6.
2. Rights of eminent domain. This Exclusion does not modify or limit the coverage provided under Covered Risk 7 or 8.
3. Defects, liens, encumbrances, adverse claims, or other matters
   a. created, suffered, assumed, or agreed to by the Insured Claimant;
   b. not Known to the Company, not recorded in the Public Records at Date of Policy, but Known to the Insured Claimant and not disclosed in writing to the Company by the Insured Claimant prior to the date the Insured Claimant became an Insured under this policy;
   c. resulting in no loss or damage to the Insured Claimant;
   d. attaching or created subsequent to Date of Policy (however, this does not modify or limit the coverage provided under Covered Risk 11, 13, or 14); or
   e. resulting in loss or damage that would not have been sustained if the Insured Claimant had paid value for the Insured Mortgage.
4. Unenforceability of the lien of the Insured Mortgage because of the inability or failure of an Insured to comply with applicable doing-business laws of the state where the Land is situated.
5. Invalidity or unenforceability in whole or in part of the lien of the Insured Mortgage that arises out of the transaction evidenced by the Insured Mortgage and is based upon usury or any consumer credit protection or truth-in-lending law.
6. Any claim, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that the transaction creating the lien of the Insured Mortgage, is
   a. a fraudulent conveyance or fraudulent transfer, or
   b. a preferential transfer for any reason not stated in Covered Risk 13(b) of this policy.
7. Any lien on the Title for real estate taxes or assessments imposed by governmental authority and created or attaching between Date of Policy and the date of recording of the Insured Mortgage in the Public Records. This Exclusion does not modify or limit the coverage provided under Covered Risk 11(b).

The above policy form may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage policy will also include the following Exceptions from Coverage:

EXCEPTIONS FROM COVERAGE

This policy does not insure against loss or damage (and the Company will not pay costs, attorneys' fees or expenses) that arise by reason of:

1. (a) Taxes or assessments that are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the Public Records; (b) proceedings by a public agency that may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the Public Records.
2. Any facts, rights, interests, or claims that are not shown by the Public Records but that could be ascertained by an inspection of the Land or that may be asserted by persons in possession of the Land.
3. Easements, liens or encumbrances, or claims thereof, not shown by the Public Records.
4. Any encroachment, encumbrance, violation, variation, or adverse circumstance affecting the Title that would be disclosed by an accurate and complete land survey of the Land and not shown by the Public Records.
5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b), or (c) are shown by the Public Records.
6. Any lien or right to a lien for services, labor or material not shown by the public records.

2006 ALTA OWNER'S POLICY (06-17-06)

EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy, and the Company will not pay loss or damage, costs, attorneys' fees, or expenses that arise by reason of:

1. a. Any law, ordinance, permit, or governmental regulation (including those relating to building and zoning) restricting, regulating, prohibiting, or relating to

   i. the occupancy, use, or enjoyment of the Land;
   ii. the character, dimensions, or location of any improvement erected on the Land;
   iii. the subdivision of land; or
   iv. environmental protection;

   or the effect of any violation of these laws, ordinances, or governmental regulations. This Exclusion 1(a) does not modify or limit the coverage provided under Covered Risk 5.

   b.Any governmental police power. This Exclusion 1(b) does not modify or limit the coverage provided under Covered Risk 6.
2. Rights of eminent domain. This Exclusion does not modify or limit the coverage provided under Covered Risk 7 or 8.
3. Defects, liens, encumbrances, adverse claims, or other matters
   a. created, suffered, assumed, or agreed to by the Insured Claimant;
   b. not Known to the Company, not recorded in the Public Records at Date of Policy, but known to the Insured Claimant and not disclosed in writing to the Company by the Insured Claimant prior to the date the Insured Claimant became an Insured under this policy;
   c. resulting in no loss or damage to the Insured Claimant;
   d. attaching or created subsequent to Date of Policy (however, this does not modify or limit the coverage provided under Covered Risk 11, 13, or 14); or
   e. resulting in loss or damage that would not have been sustained if the Insured Claimant had paid value for the Insured Mortgage.
4. Unenforceability of the lien of the Insured Mortgage because of the inability or failure of an Insured to comply with applicable doing-business laws of the state where the Land is situated.
5. Invalidity or unenforceability in whole or in part of the lien of the Insured Mortgage that arises out of the transaction evidenced by the Insured Mortgage and is based upon usury or any consumer credit protection or truth-in-lending law.
6. Any claim, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that the transaction creating the lien of the Insured Mortgage, is
   a. a fraudulent conveyance or fraudulent transfer, or
   b. a preferential transfer for any reason not stated in Covered Risk 13(b) of this policy.
7. Any lien on the Title for real estate taxes or assessments imposed by governmental authority and created or attaching between Date of Policy and the date of recording of the Insured Mortgage in the Public Records. This Exclusion does not modify or limit the coverage provided under Covered Risk 11(b).

The above policy form may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage policy will also include the following Exceptions from Coverage:

EXCEPTIONS FROM COVERAGE

This policy does not insure against loss or damage (and the Company will not pay costs, attorneys' fees or expenses) that arise by reason of:

1. (a) Taxes or assessments that are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the Public Records; (b) proceedings by a public agency that may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the Public Records.
2. Any facts, rights, interests, or claims that are not shown by the Public Records but that could be ascertained by an inspection of the Land or that may be asserted by persons in possession of the Land.
3. Easements, liens or encumbrances, or claims thereof, not shown by the Public Records.
4. Any encroachment, encumbrance, violation, variation, or adverse circumstance affecting the Title that would be disclosed by an accurate and complete land survey of the Land and not shown by the Public Records.
5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b), or (c) are shown by the Public Records.
6. Any lien or right to a lien for services, labor or material not shown by the public records.

ALTA EXPANDED COVERAGE RESIDENTIAL LOAN POLICY (07-26-10)

EXCLUSIONS FROM COVERAGE

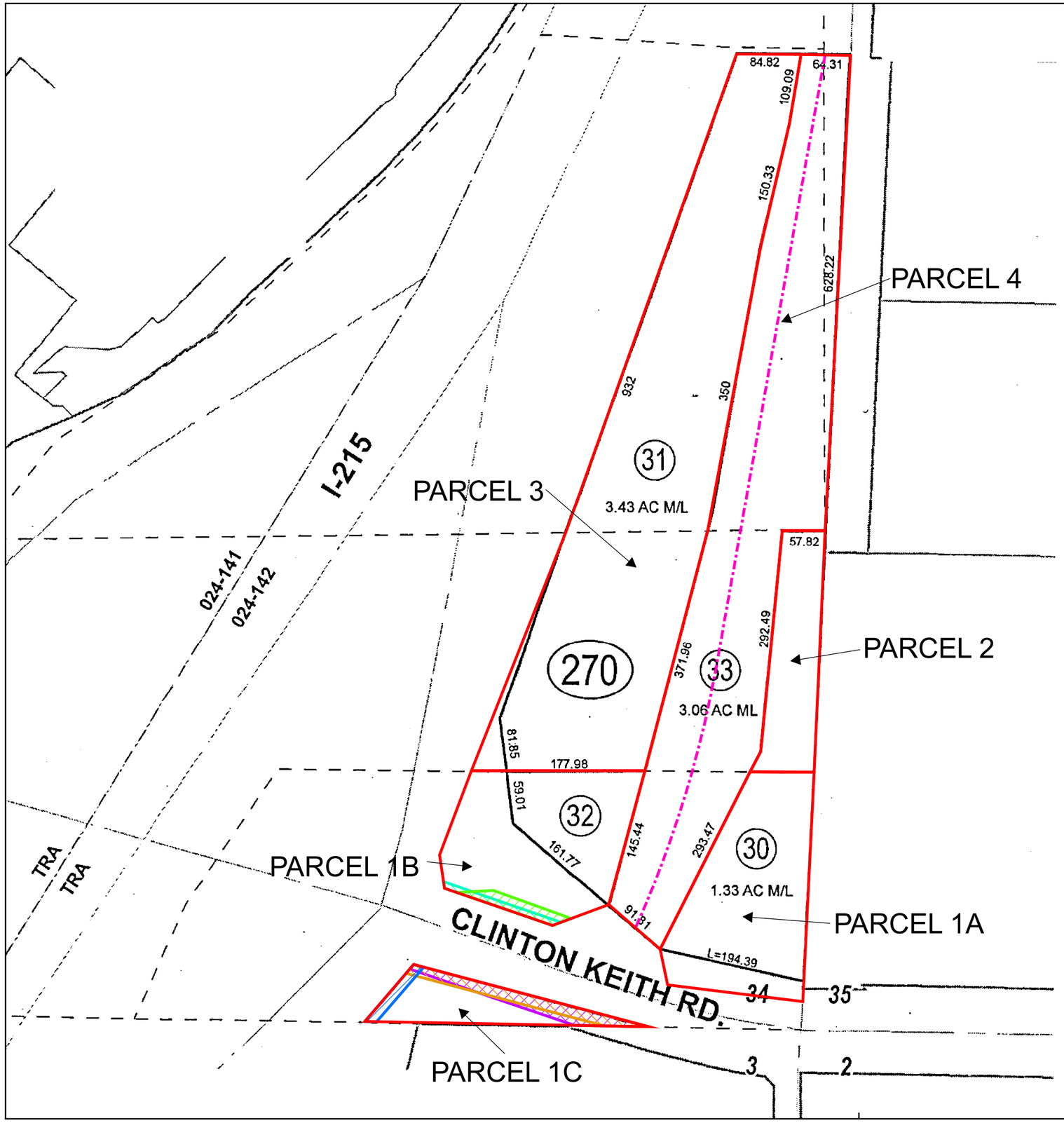
The following matters are expressly excluded from the coverage of this policy, and the Company will not pay loss or damage, costs, attorneys' fees, or expenses that arise by reason of:

1. a. Any law, ordinance, permit, or governmental regulation (including those relating to building and zoning) restricting, regulating, prohibiting, or relating to
   i. the occupancy, use, or enjoyment of the Land;
   ii. the character, dimensions, or location of any improvement erected on the Land;
   iii. the subdivision of land; or
   iv. environmental protection;

   or the effect of any violation of these laws, ordinances, or governmental regulations. This Exclusion 1(a) does not modify or limit the coverage provided under Covered Risk 5, 6, 13(c), 13(d), 14 or 16.

   b. Any governmental police power. This Exclusion 1(b) does not modify or limit the coverage provided under Covered Risk 5, 6, 13(c), 13(d), 14 or 16.
2. Rights of eminent domain. This Exclusion does not modify or limit the coverage provided under Covered Risk 7 or 8.
3. Defects, liens, encumbrances, adverse claims, or other matters

   a. created, suffered, assumed, or agreed to by the Insured Claimant;
   b. not Known to the Company, not recorded in the Public Records at Date of Policy, but Known to the Insured Claimant and not disclosed in writing to the Company by the Insured Claimant prior to the date the Insured Claimant became an Insured under this policy;
   c. resulting in no loss or damage to the Insured Claimant;
   d. attaching or created subsequent to Date of Policy (however, this does not modify or limit the coverage provided under Covered Risk 11, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27 or 28); or
   e. resulting in loss or damage that would not have been sustained if the Insured Claimant had paid value for the Insured Mortgage.
4. Unenforceability of the lien of the Insured Mortgage because of the inability or failure of an Insured to comply with applicable doing-business laws of the state where the Land is situated.
5. Invalidity or unenforceability in whole or in part of the lien of the Insured Mortgage that arises out of the transaction evidenced by the Insured Mortgage and is based upon usury or any consumer credit protection or truth-in-lending law. This Exclusion does not modify or limit the coverage provided in Covered Risk 26.
6. Any claim of invalidity, unenforceability or lack of priority of the lien of the Insured Mortgage as to Advances or modifications made after the Insured has Knowledge that the vestee shown in Schedule A is no longer the owner of the estate or interest covered by this policy. This Exclusion does not modify or limit the coverage provided in Covered Risk 11.
7. Any lien on the Title for real estate taxes or assessments imposed by governmental authority and created or attaching subsequent to Date of Policy. This Exclusion does not modify or limit the coverage provided in Covered Risk 11(b) or 25.
8. The failure of the residential structure, or any portion of it, to have been constructed before, on or after Date of Policy in accordance with applicable building codes. This Exclusion does not modify or limit the coverage provided in Covered Risk 5 or 6.
9. Any claim, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that the transaction creating the lien of the Insured Mortgage, is
   a. a fraudulent conveyance or fraudulent transfer, or
   b. a preferential transfer for any reason not stated in Covered Risk 27(b) of this policy.



First American Title Insurance Company

File No.: 649855

Location: Riverside County, CA

Legend

- PARCEL 1A
- PARCEL 1B
- PARCEL 1C
- PARCEL 2
- PARCEL 3
- PARCEL 4

08/12/1976 #118893
(Overhead And Underground Electrical Supply Systems And Communication Systems)

06/30/2003 #2003-481305
(Temporary Construction)

06/30/2003 #2003-481306
(Temporary Construction)

06/30/2003 #2003-481307
(Public Street)

11/24/2004 #2004-0937977
(Road, Public Utility)

06/05/2009 #2009-0287264
(Public Utility - Not Plotted - Blanket over PARCEL 4)

10/06/2015 #2015-0442116
(09/15/2016 #2016-0401210)
(40' Wide - Utility)

NOT TO SCALE

This map may or may not be an accurate description or identification of the land and is not intended nor may be it relied upon as a survey of the land depicted hereon. This map is solely intended to provide orientation as to the general location of the parcel or parcels depicted herein. First American Title Company, its subsidiaries and affiliates, expressly disclaim any and all liability for all loss or damage which may result from reliance or use of this map.

County of Riverside

DEPARTMENT OF ENVIRONMENTAL HEALTH

STEVE VAN STOCKUM, DIRECTOR

Records Request Acknowledgement Letter

August 7, 2017

Request No: **39309**

Request Date: **08/03/2017**

IWS Environmental
5211 Hartford Way
Westminster, CA 92683
Attn: Jim Bunck

Re: **36755 Antelope Rd.**
Murrieta, CA

We have received your request for records and a search of our files is being processed.

Once the research is completed, you will be contacted to schedule an appointment for a file review. If records are not found, you will be notified by mail.

Note: The files for Hazardous Materials Management Division began in 1986. Records for disclosure information of the cities of Corona 951-736-2220 and Riverside 951-826-5737 need to be directed to the City Fire Department.

Please direct any questions or correspondence to:

Riverside County Department of Environmental Health
Hazardous Materials Management Division
4065 County Circle Dr., Rm. 104
P.O. Box 7909
Riverside, CA 92513-7909
Attention: Records Management
Telephone: 951-358-5055 * Fax: 951-358-5017

You may visit our website at **www.rivcoeh.org**

Jim Bunck

From: Records <records@RIVCO.ORG>
Sent: Friday, August 4, 2017 9:15 AM
To: jim@iwsenvironmental.com
Subject: RE: ARCHIVED RECORDS REQUEST

After a thorough search of our records, we are unable to locate any building records for these APNs:
392-270-030 (Old APN 392-270-018)
392-270-031 (Old APN 392-270-013)
392-270-032 (Old APN 392-270-014)
392-270-033 (Old APN 0)

Our records date back to 1963. All building permit records prior to 1963 have been destroyed.

Also, this address is now located in the City of Murrieta's jurisdiction. You may want to contact their Building Department at (951) 304-2489 to check for any permits they may have issued.

If you have any questions, please contact us @ (951) 955-2017 or with a reply email.

Thank you,

Kim
Records & Information Mgmt.
TLMA, County of Riverside
(951) 955-2017
records@rivco.org



How are we doing? **Click the Link and tell us**

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-----Original Message-----
From: jim@iwsenvironmental.com [mailto:jim@iwsenvironmental.com]
Sent: Thursday, August 03, 2017 1:35 PM
To: Records <records@RIVCO.ORG>
Subject: ARCHIVED RECORDS REQUEST

At 8/3/2017 1:35:10 PM the following 'ARCHIVED RECORDS REQUEST' was submitted via the website.

Requestor's Name: Jim Bunck
Company: IWS Environmental
Requestor's Phone Number: 714-893-6140
Current Mailing Address: 5211 Hartford Way
City: Westminster
State: CA
Zip: 92683
Email: jim@iwsenvironmental.com

Address to be researched:

Assessor's Parcel No.: APN 392270033
Year Built:

Requesting All Permits: Yes
If not, specify type of Permit(s):

Additional Comments:

Confidentiality Disclaimer

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County of Riverside California

Appendix F

CK-17 LP
Clinton Keith Road/Antelope Road
Murrieta, CA 92563

Inquiry Number: 5006353.6s
August 2, 2017

EDR Vapor Encroachment Screen

Prepared using EDR's Vapor Encroachment Worksheet

EDR® Environmental Data Resources Inc

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Map Findings	**5**
Record Sources and Currency	**GR-1**

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

Disclaimer - Copyright and Trademark Notice

The EDR Vapor Encroachment Worksheet enables EDR's customers to make certain online modifications that effects maps, text and calculations contained in this Report. As a result, maps, text and calculations contained in this Report may have been so modified. EDR has not taken any action to verify any such modifications, and this report and the findings set forth herein must be read in light of this fact. Environmental Data Resources shall not be responsible for any customer's decision to include or not include in any final report any records determined to be within the relevant minimum search distances.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of the ASTM Standard Practice for Assessment of Vapor Encroachment into Structures on Property Involved in Real Estate Transactions (E 2600).

		Summary		
ENVIRONMENTAL RECORDS	**Maximum Search Distance***	**property**	**1/10**	**1/10 - 1/3**
Federal NPL site list	0.333	0	0	0
Federal CERCLIS list	0.333	0	0	0
Federal RCRA CORRACTS facilities list	0.333	0	0	0
Federal RCRA TSD facilities list	0.333	0	0	0
Federal RCRA generators list	property	0	-	-
Federal institutional controls / engineering controls registries	0.333	0	0	0
Federal ERNS list	property	0	-	-
State and tribal - equivalent NPL	0.333	0	0	0
State and tribal - equivalent CERCLIS	0.333	0	0	0
State and tribal landfill / solid waste disposal	0.333	0	0	0
State and tribal leaking storage tank lists	0.333	0	0	0
State and tribal registered storage tank lists	property	0	-	-
State and tribal institutional control / engineering control registries	not searched	-	-	-
State and tribal voluntary cleanup sites	0.333	0	0	0
State and tribal Brownfields sites	0.333	0	0	0
Other Records	0.333	0	0	0
HISTORICAL USE RECORDS				
Former Manufactured Gas Plants	0.333	0	0	0
Historical Gas Stations	0.125	0	0	0
Historical Dry Cleaners	0.125	0	0	0
Exclusive Recovered Govt. Archives	property	0	-	-

*Each category may include several separate databases, each having a different search distance. For each category, the table reports the maximum search distance applied. See the section 'Record Sources and Currency' for information on individual databases.

EXECUTIVE SUMMARY

TARGET PROPERTY INFORMATION

ADDRESS

CK-17 LP
CLINTON KEITH ROAD/ANTELOPE ROAD
MURRIETA, CA 92563

COORDINATES

Latitude (North):	33.599902 - 33° 35′ 59.651184″
Longitude (West):	117.172214 - 117° 10′ 19.958496″
Elevation:	1538 ft. above sea level

EXECUTIVE SUMMARY

PHYSICAL SETTING INFORMATION

Flood Zone:	Available
NWI Wetlands:	Available

AQUIFLOW®

Search Radius: 0.333 Mile.

No Aquiflow sites reported.

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name:	CAJALCO
Soil Surface Texture:	fine sandy loam
Hydrologic Group:	Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.
Soil Drainage Class:	Well drained
Hydric Status:	Not hydric
Corrosion Potential - Uncoated Steel:	Low
Depth to Bedrock Min:	> 0 inches
Depth to Watertable Min:	> 0 inches

Soil Layer Information

	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	12 inches	fine sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.3 Min: 6.1

EXECUTIVE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
2	12 inches	22 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 7.3 Min: 6.6
3	22 inches	61 inches	weathered bedrock	Not reported	Not reported	Max: 0.42 Min: 0	Max: Min:

Soil Map ID: 2

Soil Component Name: LAS POSAS

Soil Surface Texture: loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	11 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 7.3 Min: 6.1
2	11 inches	29 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.4 Min: 0.42	Max: 7.8 Min: 6.6

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
3	29 inches	53 inches	weathered bedrock	Not reported	Not reported	Max: 0.42 Min: 0	Max: Min:

Soil Map ID: 3

Soil Component Name: LAS POSAS

Soil Surface Texture: stony loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	5 inches	stony loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 7.3 Min: 6.1
2	5 inches	20 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.4 Min: 0.42	Max: 7.8 Min: 6.6

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
3	20 inches	24 inches	weathered bedrock	Not reported	Not reported	Max: 0.42 Min: 0	Max: Min:

Soil Map ID: 4

Soil Component Name: CAJALCO

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	12 inches	fine sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.3 Min: 6.1
2	12 inches	29 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 7.3 Min: 6.6
3	29 inches	61 inches	weathered bedrock	Not reported	Not reported	Max: 0.42 Min: 0	Max: Min:

Soil Map ID: 5

Soil Component Name: CIENEBA

Soil Surface Texture: sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information

	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	14 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.3 Min: 5.1
2	14 inches	22 inches	weathered bedrock	Not reported	Not reported	Max: 0.42 Min: 0	Max: Min:

Soil Map ID: 6

Soil Component Name: LAS POSAS

Soil Surface Texture: loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

EXECUTIVE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	5 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 7.3 Min: 6.1
2	5 inches	20 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.4 Min: 0.42	Max: 7.8 Min: 6.6
3	20 inches	24 inches	weathered bedrock	Not reported	Not reported	Max: 0.42 Min: 0	Max: Min:

Soil Map ID: 7

Soil Component Name: CIENEBA

Soil Surface Texture: sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	14 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.3 Min: 5.1

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
2	14 inches	22 inches	weathered bedrock	Not reported	Not reported	Max: 0.42 Min: 0	Max: Min:

Soil Map ID: 8

Soil Component Name: LAS POSAS

Soil Surface Texture: loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	11 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 7.3 Min: 6.1
2	11 inches	29 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.4 Min: 0.42	Max: 7.8 Min: 6.6
3	29 inches	53 inches	weathered bedrock	Not reported	Not reported	Max: 0.42 Min: 0	Max: Min:

Soil Map ID: 9

Soil Component Name: CAJALCO

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information

	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	12 inches	fine sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.3 Min: 6.1
2	12 inches	18 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 7.3 Min: 6.6
3	18 inches	61 inches	weathered bedrock	Not reported	Not reported	Max: 0.42 Min: 0	Max: Min:

Soil Map ID: 10

Soil Component Name: CAJALCO

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

EXECUTIVE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information

	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	12 inches	fine sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.3 Min: 6.1
2	12 inches	18 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 7.3 Min: 6.6
3	18 inches	61 inches	weathered bedrock	Not reported	Not reported	Max: 0.42 Min: 0	Max: Min:

Soil Map ID: 11

Soil Component Name: CIENEBA

Soil Surface Texture: sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

EXECUTIVE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	14 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.3 Min: 5.1
2	14 inches	22 inches	weathered bedrock	Not reported	Not reported	Max: 0.42 Min: 0	Max: Min:

Soil Map ID: 12

Soil Component Name: HONCUT

Soil Surface Texture: loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	22 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 42 Min: 14	Max: 7.3 Min: 5.6

EXECUTIVE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
2	22 inches	59 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 42 Min: 14	Max: 8.4 Min: 6.1

Soil Map ID: 13

Soil Component Name: LAS POSAS

Soil Surface Texture: stony loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	11 inches	stony loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 7.3 Min: 6.1

EXECUTIVE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
2	11 inches	25 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.4 Min: 0.42	Max: 7.8 Min: 6.6
3	25 inches	53 inches	weathered bedrock	Not reported	Not reported	Max: 0.42 Min: 0	Max: Min:

Soil Map ID: 14

Soil Component Name: VISTA

Soil Surface Texture: coarse sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	14 inches	coarse sandy loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.3 Min: 5.6

EXECUTIVE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
2	14 inches	24 inches	coarse sandy loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.3 Min: 5.6
3	24 inches	27 inches	weathered bedrock	Not reported	Not reported	Max: 0.42 Min: 0	Max: Min:

EXECUTIVE SUMMARY

SEARCH RESULTS

Unmappable (orphan) sites are not considered in the foregoing analysis.

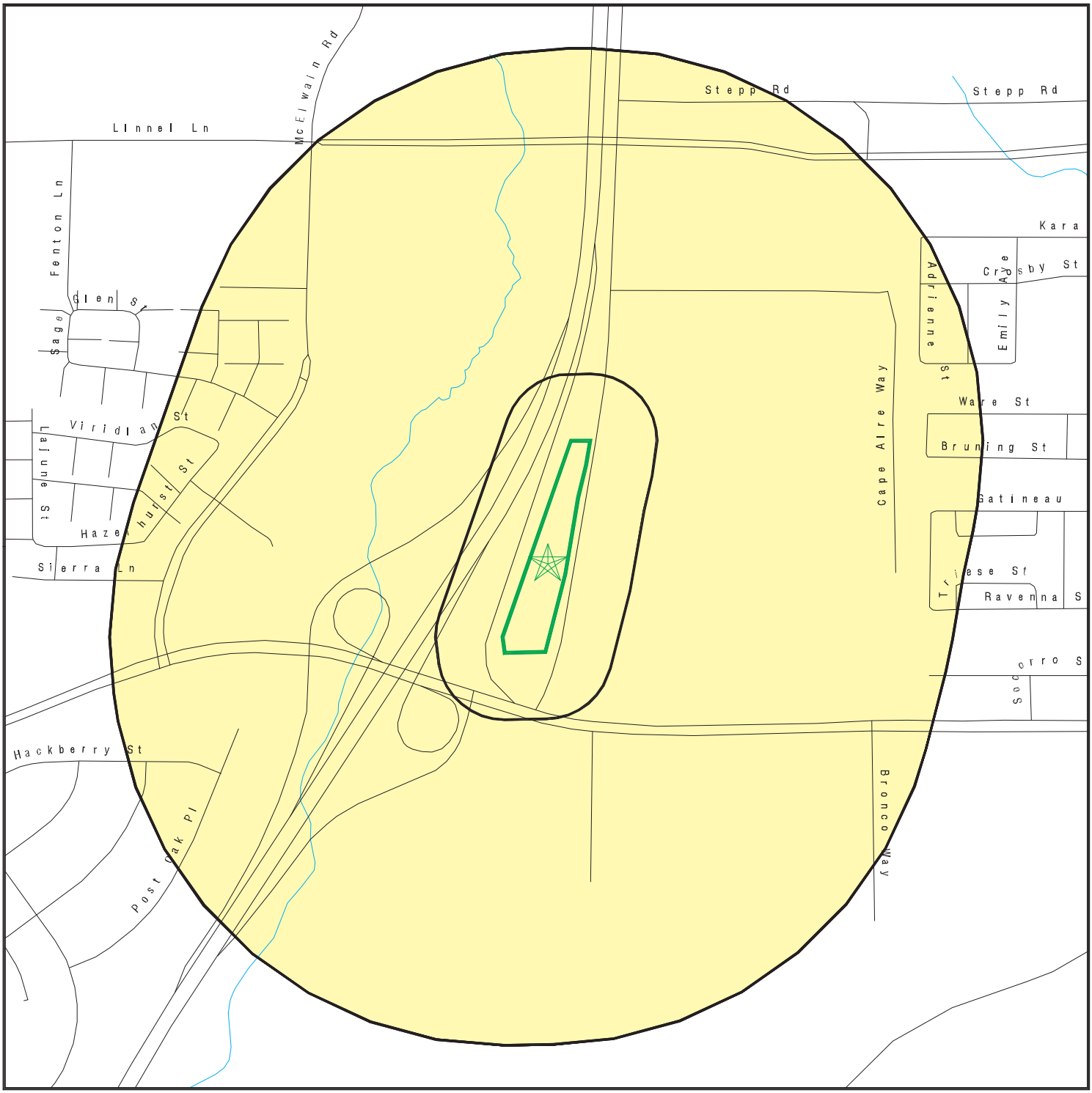
ENVIRONMENTAL RECORDS

Name	Address	Dist/Dir	Map ID	Page
Not Reported				

HISTORICAL USE RECORDS

Name	Address	Dist/Dir	Map ID	Page
Not Reported				

PRIMARY MAP - 5006353.6S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

Sensitive Receptors

National Priority List Sites

Dept. Defense Sites

0 300 1/3 Miles

Indian Reservations BIA

100-year flood zone

500-year flood zone

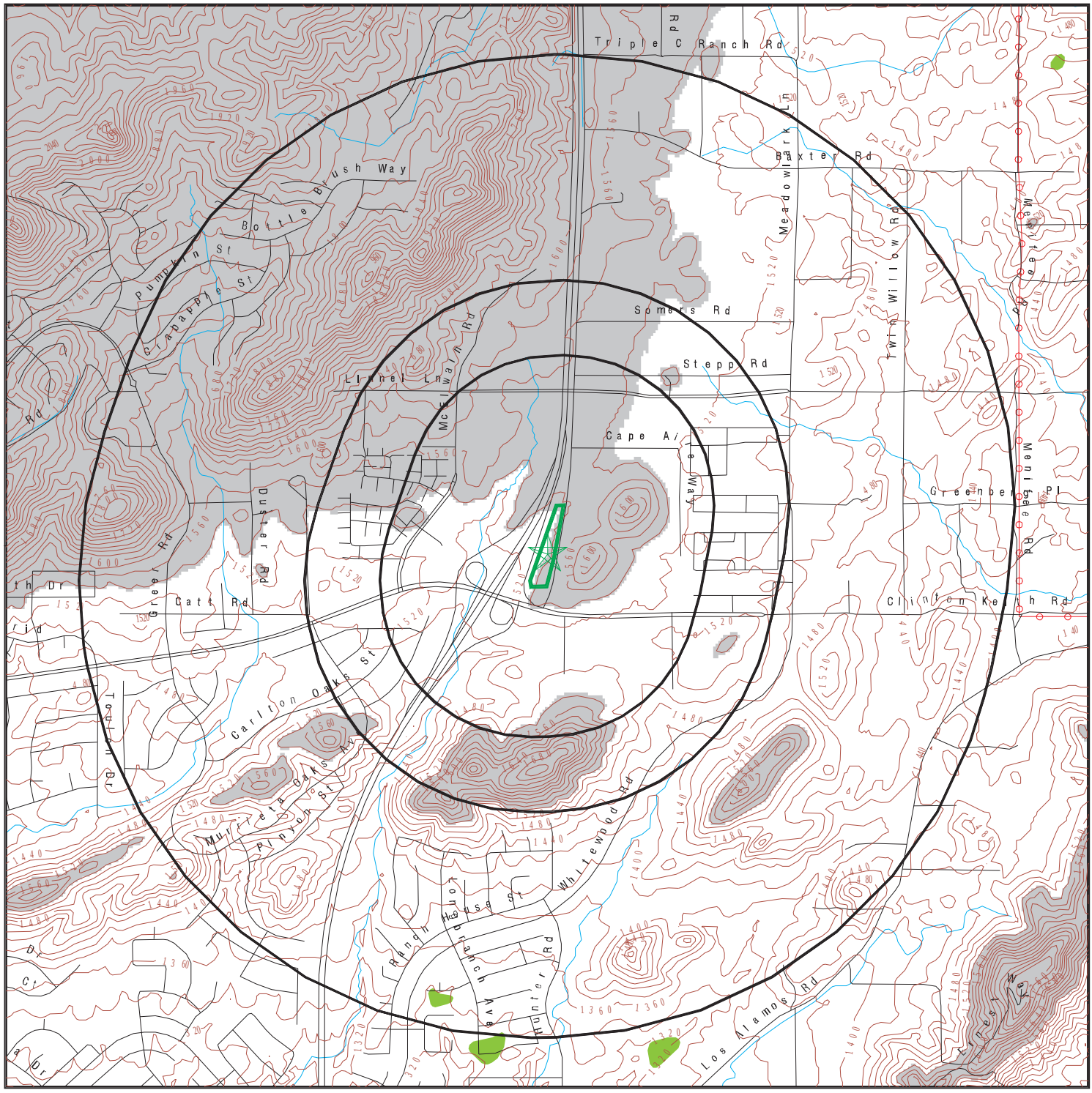
Areas of Concern

N

SITE NAME:	CK-17 LP	CLIENT:	IWS Environmental
ADDRESS:	Clinton Keith Road/Antelope Road Murrieta CA 92563	CONTACT:	Jim Bunck
LAT/LONG:	33.599902 / 117.172214	INQUIRY #:	5006353.6s
		DATE:	July 31, 2017 1:23 pm

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SECONDARY MAP - 5006353.6S



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Contour Lines
- Power transmission lines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands
- Upgradient Area
- Areas of Concern

SITE NAME: CK-17 LP	CLIENT: IWS Environmental
ADDRESS: Clinton Keith Road/Antelope Road Murrieta CA 92563	CONTACT: Jim Bunck
LAT/LONG: 33.599902 / 117.172214	INQUIRY #: 5006353.6s DATE: July 31, 2017 1:18 pm

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AERIAL PHOTOGRAPHY - 5006353.6s



SITE NAME:	CK-17 LP	CLIENT:	IWS Environmental
ADDRESS:	Clinton Keith Road/Antelope Road Murrieta CA 92563	CONTACT:	Jim Bunck
LAT/LONG:	33.599902 / 117.172214	INQUIRY #:	5006353.6s
		DATE:	July 31, 2017 1:25 pm

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MAP FINDINGS

LEGEND

FACILITY NAME **FACILITY ADDRESS, CITY, ST, ZIP**			EDR SITE ID NUMBER
▼ MAP ID#	Direction Distance Range Relative Elevation	(Distance feet / miles) Feet Above Sea Level	ASTM 2600 Record Sources found in this report. Each database searched has been assigned to one or more categories. For detailed information about categorization, see the section of the report Records Searched and Currency.

Worksheet:

Comments:

Comments may be added on the online Vapor Encroachment Worksheet.

DATABASE ACRONYM: Applicable categories (A hoverbox with database description).

RECORD SOURCES AND CURRENCY

To maintain currency of the following databases, EDR contacts the appropriate agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

ENVIRONMENTAL RECORDS

PRP: Potentially Responsible Parties
Standard Environmental Record Source: Other Records
Search Distance: Property

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013
Number of Days to Update: 3
Last EDR Contact :06/06/2017

Source: EPA
Telephone: 202-564-6023

RMP: Risk Management Plans
Standard Environmental Record Source: Other Records
Search Distance: Property

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 02/01/2017
Number of Days to Update: 57
Last EDR Contact :07/24/2017

Source: Environmental Protection Agency
Telephone: 202-564-8600

ALAMEDA CO. UST: Underground Tanks
Standard Environmental Record Source: State and tribal registered storage tank lists
Underground storage tank sites located in Alameda county.

Date of Government Version: 04/10/2017
Number of Days to Update: 21
Last EDR Contact :07/07/2017

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700

AST: Aboveground Petroleum Storage Tank Facilities
Standard Environmental Record Source: State and tribal registered storage tank lists
Search Distance: Property

A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Number of Days to Update: 69
Last EDR Contact :06/21/2017

Source: California Environmental Protection Agency
Telephone: 916-327-5092

Alameda County CS: Contaminated Sites
Standard Environmental Record Source: State and tribal leaking storage tank lists
Search Distance: 0.333 Mile

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 04/10/2017
Number of Days to Update: 31
Last EDR Contact :07/07/2017

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700

BROWNFIELDS: Considered Brownfieds Sites Listing

Standard Environmental Record Source: State and tribal Brownfields sites
Search Distance: 0.333 Mile

A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 01/03/2017
Number of Days to Update: 57
Last EDR Contact :06/28/2017

Source: State Water Resources Control Board
Telephone: 916-323-7905

CA BOND EXP. PLAN: Bond Expenditure Plan

Standard Environmental Record Source: Other Records
Search Distance: 0.333 Mile

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Number of Days to Update: 6
Last EDR Contact :05/31/1994

Source: Department of Health Services
Telephone: 916-255-2118

CA FID UST: Facility Inventory Database

Standard Environmental Record Source: Other Records
Search Distance: Property

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Number of Days to Update: 24
Last EDR Contact :12/28/1998

Source: California Environmental Protection Agency
Telephone: 916-341-5851

CA LA LF: City of Los Angeles Landfills

Standard Environmental Record Source: State and tribal landfill / solid waste disposal
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2016
Number of Days to Update: 56
Last EDR Contact :07/13/2017

Source: Engineering & Construction Division
Telephone: 213-473-7869

CDL: Clandestine Drug Labs

Standard Environmental Record Source: Other Records
Search Distance: Property

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2016

Source: Department of Toxic Substances Control

Number of Days to Update: 54 Telephone: 916-255-6504
Last EDR Contact :07/14/2017

CHMIRS: California Hazardous Material Incident Report System
Standard Environmental Record Source: Other Records
Search Distance: Property

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 12/06/2016 Source: Office of Emergency Services
Number of Days to Update: 105 Telephone: 916-845-8400
Last EDR Contact :07/26/2017

CONTRA COSTA CO. SITE LIST: Site List
Standard Environmental Record Source: Other Records
Search Distance: Property

List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 05/26/2017 Source: Contra Costa Health Services Department
Number of Days to Update: 58 Telephone: 925-646-2286
Last EDR Contact :05/01/2017

CORTESE: "Cortese" Hazardous Waste & Substances Sites List
Standard Environmental Record Source: Other Records
Search Distance: 0.333 Mile

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 12/28/2016 Source: CAL EPA/Office of Emergency Information
Number of Days to Update: 64 Telephone: 916-323-3400
Last EDR Contact :06/28/2017

CUPA AMADOR: CUPA Facility List
Standard Environmental Record Source: Other Records
Cupa Facility List

Date of Government Version: 03/06/2017 Source: Amador County Environmental Health
Number of Days to Update: 37 Telephone: 209-223-6439
Last EDR Contact :06/16/2017

CUPA BUTTE: CUPA Facility Listing
Standard Environmental Record Source: Other Records
Cupa facility list.

Date of Government Version: 01/31/2017 Source: Public Health Department
Number of Days to Update: 94 Telephone: 530-538-7149
Last EDR Contact :07/19/2017

CUPA CALVERAS: CUPA Facility Listing
Standard Environmental Record Source: Other Records
Cupa Facility Listing

Date of Government Version: 01/09/2017 Source: Calveras County Environmental Health

Number of Days to Update: 50
Last EDR Contact :06/27/2017
Telephone: 209-754-6399

CUPA COLUSA: CUPA Facility List
Standard Environmental Record Source: Other Records
Cupa facility list.

Date of Government Version: 02/23/2017
Number of Days to Update: 77
Last EDR Contact :06/02/2017
Source: Health & Human Services
Telephone: 530-458-0396

CUPA DEL NORTE: CUPA Facility List
Standard Environmental Record Source: Other Records
Cupa Facility list

Date of Government Version: 01/31/2017
Number of Days to Update: 70
Last EDR Contact :07/27/2017
Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426

CUPA EL DORADO: CUPA Facility List
Standard Environmental Record Source: Other Records
CUPA facility list.

Date of Government Version: 02/24/2017
Number of Days to Update: 73
Last EDR Contact :05/01/2017
Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623

CUPA FRESNO: CUPA Resources List
Standard Environmental Record Source: Other Records
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 04/06/2017
Number of Days to Update: 40
Last EDR Contact :06/29/2017
Source: Dept. of Community Health
Telephone: 559-445-3271

CUPA HUMBOLDT: CUPA Facility List
Standard Environmental Record Source: Other Records
CUPA facility list.

Date of Government Version: 03/20/2017
Number of Days to Update: 57
Last EDR Contact :05/22/2017
Source: Humboldt County Environmental Health
Telephone: Not Reported

CUPA IMPERIAL: CUPA Facility List
Standard Environmental Record Source: Other Records
Cupa facility list.

Date of Government Version: 01/23/2017
Number of Days to Update: 36
Last EDR Contact :07/21/2017
Source: San Diego Border Field Office
Telephone: 760-339-2777

CUPA INYO: CUPA Facility List

Standard Environmental Record Source: Other Records
Cupa facility list.

Date of Government Version: 03/09/2017
Number of Days to Update: 77
Last EDR Contact :06/02/2017
Source: Inyo County Environmental Health Services
Telephone: 760-878-0238

CUPA KINGS: CUPA Facility List
Standard Environmental Record Source: Other Records
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 03/06/2017
Number of Days to Update: 71
Last EDR Contact :05/22/2017
Source: Kings County Department of Public Health
Telephone: 559-584-1411

CUPA LAKE: CUPA Facility List
Standard Environmental Record Source: Other Records
Cupa facility list

Date of Government Version: 01/18/2017
Number of Days to Update: 41
Last EDR Contact :07/17/2017
Source: Lake County Environmental Health
Telephone: 707-263-1164

CUPA MADERA: CUPA Facility List
Standard Environmental Record Source: Other Records
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 03/03/2017
Number of Days to Update: 71
Last EDR Contact :05/22/2017
Source: Madera County Environmental Health
Telephone: 559-675-7823

CUPA MERCED: CUPA Facility List
Standard Environmental Record Source: Other Records
CUPA facility list.

Date of Government Version: 02/22/2017
Number of Days to Update: 83
Last EDR Contact :07/13/2017
Source: Merced County Environmental Health
Telephone: 209-381-1094

CUPA MONO: CUPA Facility List
Standard Environmental Record Source: Other Records
CUPA Facility List

Date of Government Version: 02/21/2017
Number of Days to Update: 76
Last EDR Contact :05/24/2017
Source: Mono County Health Department
Telephone: 760-932-5580

CUPA MONTEREY: CUPA Facility Listing
Standard Environmental Record Source: Other Records

CUPA Program listing from the Environmental Health Division.

Date of Government Version: 06/24/2016
Number of Days to Update: 43
Last EDR Contact :05/22/2017

Source: Monterey County Health Department
Telephone: 831-796-1297

CUPA NEVADA: CUPA Facility List
Standard Environmental Record Source: Other Records
CUPA facility list.

Date of Government Version: 02/09/2017
Number of Days to Update: 96
Last EDR Contact :07/27/2017

Source: Community Development Agency
Telephone: 530-265-1467

CUPA SAN LUIS OBISPO: CUPA Facility List
Standard Environmental Record Source: Other Records
Cupa Facility List.

Date of Government Version: 02/21/2017
Number of Days to Update: 91
Last EDR Contact :06/02/2017

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596

CUPA SANTA BARBARA: CUPA Facility Listing
Standard Environmental Record Source: Other Records
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Number of Days to Update: 28
Last EDR Contact :05/22/2017

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167

CUPA SANTA CLARA: Cupa Facility List
Standard Environmental Record Source: Other Records
Cupa facility list

Date of Government Version: 02/22/2017
Number of Days to Update: 89
Last EDR Contact :05/22/2017

Source: Department of Environmental Health
Telephone: 408-918-1973

CUPA SANTA CRUZ: CUPA Facility List
Standard Environmental Record Source: Other Records
CUPA facility listing.

Date of Government Version: 01/21/2017
Number of Days to Update: 90
Last EDR Contact :05/22/2017

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761

CUPA SHASTA: CUPA Facility List
Standard Environmental Record Source: Other Records
Cupa Facility List.

Date of Government Version: 03/14/2017
Number of Days to Update: 67
Last EDR Contact :05/22/2017

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789

RECORD SOURCES AND CURRENCY

CUPA SONOMA: Cupa Facility List
Standard Environmental Record Source: Other Records
Cupa Facility list

Date of Government Version: 03/01/2017
Number of Days to Update: 54
Last EDR Contact :06/21/2017

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174

CUPA TUOLUMNE: CUPA Facility List
Standard Environmental Record Source: Other Records
Cupa facility list

Date of Government Version: 01/25/2017
Number of Days to Update: 34
Last EDR Contact :07/21/2017

Source: Divison of Environmental Health
Telephone: 209-533-5633

CUPA YUBA: CUPA Facility List
Standard Environmental Record Source: Other Records
CUPA facility listing for Yuba County.

Date of Government Version: 01/30/2017
Number of Days to Update: 112
Last EDR Contact :07/27/2017

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523

DEED: Deed Restriction Listing
Standard Environmental Record Source: Other Records
Search Distance: Property

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 03/06/2017
Number of Days to Update: 77
Last EDR Contact :06/06/2017

Source: DTSC and SWRCB
Telephone: 916-323-3400

DRYCLEANERS: Cleaner Facilities
Standard Environmental Record Source: Other Records
Search Distance: 0.25 Mile

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 03/09/2017
Number of Days to Update: 42
Last EDR Contact :07/13/2017

Source: Department of Toxic Substance Control
Telephone: 916-327-4498

EL SEGUNDO UST: City of El Segundo Underground Storage Tank
Standard Environmental Record Source: State and tribal registered storage tank lists

Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/17/2017
Number of Days to Update: 112
Last EDR Contact :07/13/2017

Source: City of El Segundo Fire Department
Telephone: 310-524-2236

EMI: Emissions Inventory Data

Standard Environmental Record Source: Other Records

Search Distance: Property

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2014
Number of Days to Update: 31
Last EDR Contact :06/23/2017

Source: California Air Resources Board
Telephone: 916-322-2990

ENF: Enforcement Action Listing

Standard Environmental Record Source: Other Records

Search Distance: Property

A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 01/23/2017
Number of Days to Update: 118
Last EDR Contact :07/19/2017

Source: State Water Resoruces Control Board
Telephone: 916-445-9379

ENVIROSTOR: EnviroStor Database

Standard Environmental Record Source: State and tribal - equivalent CERCLIS

Search Distance: 0.333 Mile

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 01/30/2017
Number of Days to Update: 112
Last EDR Contact :05/02/2017

Source: Department of Toxic Substances Control
Telephone: 916-323-3400

HAULERS: Registered Waste Tire Haulers Listing

Standard Environmental Record Source: Other Records

Search Distance: Property

A listing of registered waste tire haulers.

Date of Government Version: 01/13/2017
Number of Days to Update: 134
Last EDR Contact :05/15/2017

Source: Integrated Waste Management Board
Telephone: 916-341-6422

HAZNET: Facility and Manifest Data

Standard Environmental Record Source: Other Records

Search Distance: Property

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2015
Source: California Environmental Protection Agency
Number of Days to Update: 64
Telephone: 916-255-1136
Last EDR Contact :07/12/2017

HIST CAL-SITES: Calsites Database

Standard Environmental Record Source: Other Records

Search Distance: 0.333 Mile

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Source: Department of Toxic Substance Control
Number of Days to Update: 21
Telephone: 916-323-3400
Last EDR Contact :02/23/2009

HIST CORTESE: Hazardous Waste & Substance Site List

Standard Environmental Record Source: Other Records

Search Distance: 0.333 Mile

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Source: Department of Toxic Substances Control
Number of Days to Update: 76
Telephone: 916-323-3400
Last EDR Contact :01/22/2009

HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report

Standard Environmental Record Source: State and tribal leaking storage tank lists

Search Distance: 0.333 Mile

A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Source: Santa Clara Valley Water District
Number of Days to Update: 22
Telephone: 408-265-2600
Last EDR Contact :03/23/2009

HIST UST: Hazardous Substance Storage Container Database

Standard Environmental Record Source: Other Records

Search Distance: Property

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Source: State Water Resources Control Board
Number of Days to Update: 18
Telephone: 916-341-5851
Last EDR Contact :07/26/2001

HWP: EnviroStor Permitted Facilities Listing

Standard Environmental Record Source: Other Records

Search Distance: 0.333 Mile

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 11/21/2016
Number of Days to Update: 62
Last EDR Contact :05/24/2017
Source: Department of Toxic Substances Control
Telephone: 916-323-3400

HWT: Registered Hazardous Waste Transporter Database
Standard Environmental Record Source: Other Records
Search Distance: Property

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 04/11/2017
Number of Days to Update: 13
Last EDR Contact :07/12/2017
Source: Department of Toxic Substances Control
Telephone: 916-440-7145

KERN CO. UST: Underground Storage Tank Sites & Tank Listing
Standard Environmental Record Source: State and tribal registered storage tank lists
Kern County Sites and Tanks Listing.

Date of Government Version: 02/07/2017
Number of Days to Update: 81
Last EDR Contact :05/05/2017
Source: Kern County Environment Health Services Department
Telephone: 661-862-8700

LA Co. Site Mitigation: Site Mitigation List
Standard Environmental Record Source: Other Records
Search Distance: Property

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 03/29/2016
Number of Days to Update: 68
Last EDR Contact :07/17/2017
Source: Community Health Services
Telephone: 323-890-7806

LDS: Land Disposal Sites Listing (GEOTRACKER)
Standard Environmental Record Source: Other Records
Search Distance: Property

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/13/2017
Number of Days to Update: 49
Last EDR Contact :06/14/2017
Source: State Water Qualilty Control Board
Telephone: 866-480-1028

LIENS: Environmental Liens Listing
Standard Environmental Record Source: Other Records
Search Distance: Property

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 03/06/2017
Number of Days to Update: 45
Source: Department of Toxic Substances Control
Telephone: 916-323-3400

Last EDR Contact :06/02/2017

LONG BEACH UST: City of Long Beach Underground Storage Tank

Standard Environmental Record Source: State and tribal registered storage tank lists

Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 03/09/2017
Source: City of Long Beach Fire Department
Number of Days to Update: 54
Telephone: 562-570-2563
Last EDR Contact :07/21/2017

LOS ANGELES CO. HMS: HMS: Street Number List

Standard Environmental Record Source: Other Records

Search Distance: Property

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 11/14/2016
Source: Department of Public Works
Number of Days to Update: 66
Telephone: 626-458-3517
Last EDR Contact :07/07/2017

LOS ANGELES CO. LF: List of Solid Waste Facilities

Standard Environmental Record Source: State and tribal landfill / solid waste disposal

Solid Waste Facilities in Los Angeles County.

Date of Government Version: 04/17/2017
Source: La County Department of Public Works
Number of Days to Update: 14
Telephone: 818-458-5185
Last EDR Contact :07/18/2017

LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)

Standard Environmental Record Source: State and tribal leaking storage tank lists

Search Distance: 0.333 Mile

Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/13/2017
Source: State Water Resources Control Board
Number of Days to Update: 49
Telephone: see region list
Last EDR Contact :06/14/2017

LUST REG 1: Active Toxic Site Investigation

Standard Environmental Record Source: State and tribal leaking storage tank lists

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Source: California Regional Water Quality Control Board North Coast (1)
Number of Days to Update: 29
Telephone: 707-570-3769
Last EDR Contact :08/01/2011

LUST REG 2: Fuel Leak List

Standard Environmental Record Source: State and tribal leaking storage tank lists

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Source: California Regional Water Quality Control Board San Francisco Bay Region (2)

Number of Days to Update: 30
Telephone: 510-622-2433
Last EDR Contact :09/19/2011

LUST REG 3: Leaking Underground Storage Tank Database

Standard Environmental Record Source: State and tribal leaking storage tank lists

Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Source: California Regional Water Quality Control Board Central Coast Region (3)
Number of Days to Update: 14
Telephone: 805-542-4786
Last EDR Contact :07/18/2011

LUST REG 4: Underground Storage Tank Leak List

Standard Environmental Record Source: State and tribal leaking storage tank lists

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Source: California Regional Water Quality Control Board Los Angeles Region (4)
Number of Days to Update: 35
Telephone: 213-576-6710
Last EDR Contact :09/06/2011

LUST REG 5: Leaking Underground Storage Tank Database

Standard Environmental Record Source: State and tribal leaking storage tank lists

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Source: California Regional Water Quality Control Board Central Valley Region (5)
Number of Days to Update: 9
Telephone: 916-464-4834
Last EDR Contact :07/01/2011

LUST REG 6L: Leaking Underground Storage Tank Case Listing

Standard Environmental Record Source: State and tribal leaking storage tank lists

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Source: California Regional Water Quality Control Board Lahontan Region (6)
Number of Days to Update: 27
Telephone: 530-542-5572
Last EDR Contact :09/12/2011

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Standard Environmental Record Source: State and tribal leaking storage tank lists

Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Number of Days to Update: 22
Telephone: 760-241-7365
Last EDR Contact :09/12/2011

LUST REG 7: Leaking Underground Storage Tank Case Listing

Standard Environmental Record Source: State and tribal leaking storage tank lists

Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Number of Days to Update: 27
Telephone: 760-776-8943
Last EDR Contact :08/01/2011

LUST REG 8: Leaking Underground Storage Tanks

Standard Environmental Record Source: State and tribal leaking storage tank lists

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Source: California Regional Water Quality Control Board Santa Ana Region (8)
Number of Days to Update: 41
Telephone: 909-782-4496
Last EDR Contact :08/15/2011

LUST REG 9: Leaking Underground Storage Tank Report

Standard Environmental Record Source: State and tribal leaking storage tank lists

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Source: California Regional Water Quality Control Board San Diego Region (9)
Number of Days to Update: 28
Telephone: 858-637-5595
Last EDR Contact :09/26/2011

LUST SANTA CLARA: LOP Listing

Standard Environmental Record Source: State and tribal leaking storage tank lists

A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Source: Department of Environmental Health
Number of Days to Update: 13
Telephone: 408-918-3417
Last EDR Contact :05/24/2017

MARIN CO. UST: Underground Storage Tank Sites

Standard Environmental Record Source: State and tribal registered storage tank lists

Currently permitted USTs in Marin County.

Date of Government Version: 03/31/2017
Source: Public Works Department Waste Management
Number of Days to Update: 27
Telephone: 415-473-6647
Last EDR Contact :06/29/2017

MCS: Military Cleanup Sites Listing (GEOTRACKER)

Standard Environmental Record Source: Other Records

Search Distance: Property

Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/13/2017
Source: State Water Resources Control Board
Number of Days to Update: 49
Telephone: 866-480-1028
Last EDR Contact :06/14/2017

MED WASTE VENTURA: Medical Waste Program List

Standard Environmental Record Source: Other Records

Search Distance: Property

To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 09/26/2016
Number of Days to Update: 89
Last EDR Contact :07/24/2017

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813

MINES: Mines Site Location Listing
Standard Environmental Record Source: Other Records
Search Distance: Property

A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 09/12/2016
Number of Days to Update: 30
Last EDR Contact :06/14/2017

Source: Department of Conservation
Telephone: 916-322-1080

MWMP: Medical Waste Management Program Listing
Standard Environmental Record Source: Other Records
Search Distance: Property

The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 12/02/2016
Number of Days to Update: 86
Last EDR Contact :06/06/2017

Source: Department of Public Health
Telephone: 916-558-1784

NAPA CO. LUST: Sites With Reported Contamination
Standard Environmental Record Source: State and tribal leaking storage tank lists
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017
Number of Days to Update: 50
Last EDR Contact :05/24/2017

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269

NAPA CO. UST: Closed and Operating Underground Storage Tank Sites
Standard Environmental Record Source: State and tribal registered storage tank lists
Underground storage tank sites located in Napa county.

Date of Government Version: 03/15/2017
Number of Days to Update: 54
Last EDR Contact :05/24/2017

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269

NOTIFY 65: Proposition 65 Records
Standard Environmental Record Source: Other Records
Search Distance: Property

Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 12/16/2016
Number of Days to Update: 70
Last EDR Contact :06/16/2017

Source: State Water Resources Control Board
Telephone: 916-445-3846

RECORD SOURCES AND CURRENCY

NPDES: NPDES Permits Listing
Standard Environmental Record Source: Other Records
Search Distance: Property

A listing of NPDES permits, including stormwater.

Date of Government Version: 11/14/2016
Number of Days to Update: 107
Last EDR Contact :05/17/2017
Source: State Water Resources Control Board
Telephone: 916-445-9379

ORANGE CO. LUST: List of Underground Storage Tank Cleanups
Standard Environmental Record Source: State and tribal leaking storage tank lists
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 11/04/2016
Number of Days to Update: 73
Last EDR Contact :05/08/2017
Source: Health Care Agency
Telephone: 714-834-3446

ORANGE CO. UST: List of Underground Storage Tank Facilities
Standard Environmental Record Source: State and tribal registered storage tank lists
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 02/06/2017
Number of Days to Update: 85
Last EDR Contact :05/09/2017
Source: Health Care Agency
Telephone: 714-834-3446

Orange Co. Industrial Site: List of Industrial Site Cleanups
Standard Environmental Record Source: Other Records
Search Distance: Property

Petroleum and non-petroleum spills.

Date of Government Version: 02/06/2017
Number of Days to Update: 70
Last EDR Contact :05/08/2017
Source: Health Care Agency
Telephone: 714-834-3446

PEST LIC: Pesticide Regulation Licenses Listing
Standard Environmental Record Source: Other Records
Search Distance: Property

A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 12/06/2016
Number of Days to Update: 87
Last EDR Contact :06/07/2017
Source: Department of Pesticide Regulation
Telephone: 916-445-4038

PLACER CO. MS: Master List of Facilities
Standard Environmental Record Source: Other Records
Search Distance: Property

List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 09/02/2016
Number of Days to Update: 38
Source: Placer County Health and Human Services
Telephone: 530-745-2363

Last EDR Contact :06/02/2017

PROC: Certified Processors Database

Standard Environmental Record Source: Other Records

Search Distance: 0.333 Mile

A listing of certified processors.

Date of Government Version: 03/13/2017 Source: Department of Conservation

Number of Days to Update: 50 Telephone: 916-323-3836

Last EDR Contact :06/14/2017

RESPONSE: State Response Sites

Standard Environmental Record Source: State and tribal - equivalent NPL

Search Distance: 0.333 Mile

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 01/30/2017 Source: Department of Toxic Substances Control

Number of Days to Update: 112 Telephone: 916-323-3400

Last EDR Contact :05/02/2017

RIVERSIDE CO. LUST: Listing of Underground Tank Cleanup Sites

Standard Environmental Record Source: State and tribal leaking storage tank lists

Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 04/18/2017 Source: Department of Environmental Health

Number of Days to Update: 1 Telephone: 951-358-5055

Last EDR Contact :06/19/2017

RIVERSIDE CO. UST: Underground Storage Tank Tank List

Standard Environmental Record Source: State and tribal registered storage tank lists

Underground storage tank sites located in Riverside county.

Date of Government Version: 01/19/2017 Source: Department of Environmental Health

Number of Days to Update: 98 Telephone: 951-358-5055

Last EDR Contact :06/19/2017

SAN DIEGO CO. HMMD: Hazardous Materials Management Division Database

Standard Environmental Record Source: Other Records

Search Distance: Property

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 10/05/2016 Source: Hazardous Materials Management Division

Number of Days to Update: 86 Telephone: 619-338-2268

Last EDR Contact :06/07/2017

SAN DIEGO CO. LF: Solid Waste Facilities

Standard Environmental Record Source: State and tribal landfill / solid waste disposal

San Diego County Solid Waste Facilities.

Date of Government Version: 10/31/2015
Number of Days to Update: 58
Last EDR Contact :07/21/2017
Source: Department of Health Services
Telephone: 619-338-2209

SAN DIEGO CO. SAM: Environmental Case Listing
Standard Environmental Record Source: State and tribal leaking storage tank lists
Search Distance: 0.333 Mile

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Number of Days to Update: 24
Last EDR Contact :06/05/2017
Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371

SAN FRANCISCO CO. LUST: Local Oversite Facilities
Standard Environmental Record Source: State and tribal leaking storage tank lists
A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Number of Days to Update: 10
Last EDR Contact :05/05/2017
Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920

SAN FRANCISCO CO. UST: Underground Storage Tank Information
Standard Environmental Record Source: State and tribal registered storage tank lists
Underground storage tank sites located in San Francisco county.

Date of Government Version: 02/28/2017
Number of Days to Update: 62
Last EDR Contact :05/05/2017
Source: Department of Public Health
Telephone: 415-252-3920

SAN JOSE HAZMAT: Hazardous Material Facilities
Standard Environmental Record Source: Other Records
Search Distance: Property

Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 05/04/2017
Number of Days to Update: 80
Last EDR Contact :05/05/2017
Source: City of San Jose Fire Department
Telephone: 408-535-7694

SAN MATEO CO. LUST: Fuel Leak List
Standard Environmental Record Source: State and tribal leaking storage tank lists
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/15/2017
Number of Days to Update: 14
Last EDR Contact :06/09/2017
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921

SCH: School Property Evaluation Program
Standard Environmental Record Source: Other Records
Search Distance: Property

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 01/30/2017
Source: Department of Toxic Substances Control
Number of Days to Update: 112
Telephone: 916-323-3400
Last EDR Contact :05/02/2017

SLIC: Statewide SLIC Cases (GEOTRACKER)

Standard Environmental Record Source: State and tribal leaking storage tank lists

Search Distance: 0.333 Mile

Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/13/2017
Source: State Water Resources Control Board
Number of Days to Update: 49
Telephone: 866-480-1028
Last EDR Contact :06/14/2017

SLIC REG 1: Active Toxic Site Investigations

Standard Environmental Record Source: State and tribal leaking storage tank lists

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Source: California Regional Water Quality Control Board, North Coast Region (1)
Number of Days to Update: 18
Telephone: 707-576-2220
Last EDR Contact :08/01/2011

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Standard Environmental Record Source: State and tribal leaking storage tank lists

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Number of Days to Update: 30
Telephone: 510-286-0457
Last EDR Contact :09/19/2011

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Standard Environmental Record Source: State and tribal leaking storage tank lists

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Source: California Regional Water Quality Control Board Central Coast Region (3)
Number of Days to Update: 28
Telephone: 805-549-3147
Last EDR Contact :07/18/2011

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Standard Environmental Record Source: State and tribal leaking storage tank lists

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Source: Region Water Quality Control Board Los Angeles Region (4)

Number of Days to Update: 47
Telephone: 213-576-6600
Last EDR Contact :07/01/2011

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Standard Environmental Record Source: State and tribal leaking storage tank lists

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Source: Regional Water Quality Control Board Central Valley Region (5)
Number of Days to Update: 16
Telephone: 916-464-3291
Last EDR Contact :09/12/2011

SLIC REG 6L: SLIC Sites

Standard Environmental Record Source: State and tribal leaking storage tank lists

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Source: California Regional Water Quality Control Board, Lahontan Region
Number of Days to Update: 35
Telephone: 530-542-5574
Last EDR Contact :08/15/2011

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Standard Environmental Record Source: State and tribal leaking storage tank lists

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Source: Regional Water Quality Control Board, Victorville Branch
Number of Days to Update: 22
Telephone: 619-241-6583
Last EDR Contact :08/15/2011

SLIC REG 7: SLIC List

Standard Environmental Record Source: State and tribal leaking storage tank lists

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Source: California Regional Quality Control Board, Colorado River Basin Region
Number of Days to Update: 36
Telephone: 760-346-7491
Last EDR Contact :08/01/2011

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Standard Environmental Record Source: State and tribal leaking storage tank lists

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Source: California Region Water Quality Control Board Santa Ana Region (8)
Number of Days to Update: 11
Telephone: 951-782-3298
Last EDR Contact :09/12/2011

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Standard Environmental Record Source: State and tribal leaking storage tank lists

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Source: California Regional Water Quality Control Board San Diego Region (9)
Number of Days to Update: 17
Telephone: 858-467-2980
Last EDR Contact :08/08/2011

SOLANO CO. LUST: Leaking Underground Storage Tanks
Standard Environmental Record Source: State and tribal leaking storage tank lists
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 11/29/2016
Source: Solano County Department of Environmental Management
Number of Days to Update: 1
Telephone: 707-784-6770
Last EDR Contact :06/09/2017

SOLANO CO. UST: Underground Storage Tanks
Standard Environmental Record Source: State and tribal registered storage tank lists
Underground storage tank sites located in Solano county.

Date of Government Version: 03/15/2017
Source: Solano County Department of Environmental Management
Number of Days to Update: 47
Telephone: 707-784-6770
Last EDR Contact :06/09/2017

SONOMA CO. LUST: Leaking Underground Storage Tank Sites
Standard Environmental Record Source: State and tribal leaking storage tank lists
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 01/04/2017
Source: Department of Health Services
Number of Days to Update: 55
Telephone: 707-565-6565
Last EDR Contact :06/21/2017

SPILLS 90: SPILLS90 data from FirstSearch
Standard Environmental Record Source: Other Records
Search Distance: Property

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Source: FirstSearch
Number of Days to Update: 50
Telephone: Not Reported
Last EDR Contact :01/03/2013

SUTTER CO. UST: Underground Storage Tanks
Standard Environmental Record Source: State and tribal registered storage tank lists
Underground storage tank sites located in Sutter county.

Date of Government Version: 12/02/2016
Source: Sutter County Department of Agriculture
Number of Days to Update: 35
Telephone: 530-822-7500
Last EDR Contact :06/02/2017

SWEEPS UST: SWEEPS UST Listing
Standard Environmental Record Source: Other Records
Search Distance: Property

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Source: State Water Resources Control Board
Number of Days to Update: 35
Telephone: Not Reported
Last EDR Contact :06/03/2005

SWF/LF (SWIS): Solid Waste Information System

Standard Environmental Record Source: State and tribal landfill / solid waste disposal
Search Distance: 0.333 Mile

Active, Closed and Inactive Landfills.SWF/LF records typically contain an inventory of solid waste disposal facilities or landfills.These may be active or inactive facilities or open dumps that failed to meet RCRA Section 4004 criteriafor solid waste landfills or disposal sites.

Date of Government Version: 02/13/2017
Source: Department of Resources Recycling and Recovery
Number of Days to Update: 76
Telephone: 916-341-6320
Last EDR Contact :05/17/2017

SWRCY: Recycler Database

Standard Environmental Record Source: Other Records
Search Distance: 0.333 Mile

A listing of recycling facilities in California.

Date of Government Version: 03/13/2017
Source: Department of Conservation
Number of Days to Update: 50
Telephone: 916-323-3836
Last EDR Contact :06/14/2017

Sacramento Co. CS: Toxic Site Clean-Up List

Standard Environmental Record Source: State and tribal leaking storage tank lists
Search Distance: 0.333 Mile

List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 11/07/2016
Source: Sacramento County Environmental Management
Number of Days to Update: 56
Telephone: 916-875-8406
Last EDR Contact :07/06/2017

Sacramento Co. ML: Master Hazardous Materials Facility List

Standard Environmental Record Source: Other Records
Search Distance: Property

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 11/08/2016
Source: Sacramento County Environmental Management
Number of Days to Update: 56
Telephone: 916-875-8406
Last EDR Contact :07/06/2017

San Bern. Co. Permit: Hazardous Material Permits

Standard Environmental Record Source: Other Records
Search Distance: Property

RECORD SOURCES AND CURRENCY

This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 12/09/2016
Source: San Bernardino County Fire Department Hazardous Materials Division
Number of Days to Update: 80
Telephone: 909-387-3041
Last EDR Contact :05/08/2017

San Mateo Co. BI: Business Inventory
Standard Environmental Record Source: Other Records
Search Distance: Property

List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 03/15/2017
Source: San Mateo County Environmental Health Services Division
Number of Days to Update: 33
Telephone: 650-363-1921
Last EDR Contact :06/09/2017

TORRANCE UST: City of Torrance Underground Storage Tank
Standard Environmental Record Source: State and tribal registered storage tank lists
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 01/10/2017
Source: City of Torrance Fire Department
Number of Days to Update: 110
Telephone: 310-618-2973
Last EDR Contact :07/07/2017

TOXIC PITS: Toxic Pits Cleanup Act Sites
Standard Environmental Record Source: Other Records
Search Distance: 0.333 Mile

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Source: State Water Resources Control Board
Number of Days to Update: 27
Telephone: 916-227-4364
Last EDR Contact :01/26/2009

UIC: UIC Listing
Standard Environmental Record Source: Other Records
Search Distance: Property

A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 01/20/2017
Source: Deaprtment of Conservation
Number of Days to Update: 50
Telephone: 916-445-2408
Last EDR Contact :06/14/2017

UST: Active UST Facilities
Standard Environmental Record Source: State and tribal registered storage tank lists
Search Distance: Property

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 03/12/2017
Source: SWRCB
Number of Days to Update: 57
Telephone: 916-341-5851

Last EDR Contact :06/14/2017

UST MENDOCINO: Mendocino County UST Database

Standard Environmental Record Source: State and tribal registered storage tank lists

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 03/09/2017
Source: Department of Public Health
Number of Days to Update: 67
Telephone: 707-463-4466
Last EDR Contact :05/24/2017

UST SAN JOAQUIN: San Joaquin Co. UST

Standard Environmental Record Source: State and tribal registered storage tank lists

A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 03/21/2017
Source: Environmental Health Department
Number of Days to Update: 47
Telephone: Not Reported
Last EDR Contact :06/16/2017

VCP: Voluntary Cleanup Program Properties

Standard Environmental Record Source: State and tribal voluntary cleanup sites

Search Distance: 0.333 Mile

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 01/30/2017
Source: Department of Toxic Substances Control
Number of Days to Update: 112
Telephone: 916-323-3400
Last EDR Contact :05/02/2017

VENTURA CO. BWT: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks

Standard Environmental Record Source: Other Records

Search Distance: Property

The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 12/27/2016
Source: Ventura County Environmental Health Division
Number of Days to Update: 103
Telephone: 805-654-2813
Last EDR Contact :07/24/2017

VENTURA CO. LF: Inventory of Illegal Abandoned and Inactive Sites

Standard Environmental Record Source: State and tribal landfill / solid waste disposal

Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Source: Environmental Health Division
Number of Days to Update: 49
Telephone: 805-654-2813
Last EDR Contact :06/29/2017

VENTURA CO. LUST: Listing of Underground Tank Cleanup Sites

Standard Environmental Record Source: State and tribal leaking storage tank lists

Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Source: Environmental Health Division
Number of Days to Update: 37
Telephone: 805-654-2813

Last EDR Contact :05/15/2017

VENTURA CO. UST: Underground Tank Closed Sites List
Standard Environmental Record Source: State and tribal registered storage tank lists
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 02/27/2017
Number of Days to Update: 49
Last EDR Contact :06/14/2017
Source: Environmental Health Division
Telephone: 805-654-2813

WDS: Waste Discharge System
Standard Environmental Record Source: Other Records
Search Distance: Property

Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Number of Days to Update: 9
Last EDR Contact :05/22/2017
Source: State Water Resources Control Board
Telephone: 916-341-5227

WIP: Well Investigation Program Case List
Standard Environmental Record Source: Other Records
Search Distance: Property

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Number of Days to Update: 13
Last EDR Contact :06/27/2017
Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726

WMUDS/SWAT: Waste Management Unit Database
Standard Environmental Record Source: Other Records
Search Distance: 0.333 Mile

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Number of Days to Update: 30
Last EDR Contact :05/05/2017
Source: State Water Resources Control Board
Telephone: 916-227-4448

YOLO CO. UST: Underground Storage Tank Comprehensive Facility Report
Standard Environmental Record Source: State and tribal registered storage tank lists
Underground storage tank sites located in Yolo county.

Date of Government Version: 03/31/2017
Number of Days to Update: 27
Last EDR Contact :06/29/2017
Source: Yolo County Department of Health
Telephone: 530-666-8646

2020 COR ACTION: 2020 Corrective Action Program List
Standard Environmental Record Source: Other Records
Search Distance: Property

RECORD SOURCES AND CURRENCY

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 04/22/2013
Number of Days to Update: 6
Last EDR Contact :05/05/2017

Source: Environmental Protection Agency
Telephone: 703-308-4044

ABANDONED MINES: Abandoned Mines

Standard Environmental Record Source: Other Records
Search Distance: Property

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 03/14/2017
Number of Days to Update: 21
Last EDR Contact :06/09/2017

Source: Department of Interior
Telephone: 202-208-2609

COAL ASH DOE: Steam-Electric Plant Operation Data

Standard Environmental Record Source: Other Records
Search Distance: 0.333 Mile

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Number of Days to Update: 76
Last EDR Contact :06/05/2017

Source: Department of Energy
Telephone: 202-586-8719

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

Standard Environmental Record Source: Other Records
Search Distance: 0.333 Mile

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014
Number of Days to Update: 40
Last EDR Contact :06/05/2017

Source: Environmental Protection Agency
Telephone: Not Reported

CONSENT: Superfund (CERCLA) Consent Decrees

Standard Environmental Record Source: Other Records
Search Distance: 0.333 Mile

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 09/30/2016
Number of Days to Update: 77
Last EDR Contact :06/21/2017

Source: Department of Justice, Consent Decree Library
Telephone: Varies

CORRACTS: Corrective Action Report

Standard Environmental Record Source: Federal RCRA CORRACTS facilities list
Search Distance: 0.333 Mile

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/12/2016
Number of Days to Update: 44
Last EDR Contact :06/29/2017
Source: EPA
Telephone: 800-424-9346

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
Standard Environmental Record Source: Other Records
Search Distance: 0.333 Mile

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Number of Days to Update: 137
Last EDR Contact :07/24/2017
Source: EPA, Region 9
Telephone: 415-947-4219

DOCKET HWC: Hazardous Waste Compliance Docket Listing
Standard Environmental Record Source: Other Records
Search Distance: Property

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 06/02/2016
Number of Days to Update: 91
Last EDR Contact :05/24/2017
Source: Environmental Protection Agency
Telephone: 202-564-0527

DOT OPS: Incident and Accident Data
Standard Environmental Record Source: Other Records
Search Distance: Property

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Number of Days to Update: 42
Last EDR Contact :05/02/2017
Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595

Delisted NPL: National Priority List Deletions
Standard Environmental Record Source: Other Records
Search Distance: 0.333 Mile

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 04/05/2017
Number of Days to Update: 21
Last EDR Contact :07/07/2017
Source: EPA
Telephone: Not Reported

ECHO: Enforcement & Compliance History Information
Standard Environmental Record Source: Other Records
Search Distance: Property

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 03/19/2017
Source: Environmental Protection Agency

Number of Days to Update: 52
Telephone: 202-564-2280
Last EDR Contact :06/07/2017

EPA WATCH LIST: EPA WATCH LIST

Standard Environmental Record Source: Other Records

Search Distance: Property

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Source: Environmental Protection Agency
Number of Days to Update: 88
Telephone: 617-520-3000
Last EDR Contact :05/08/2017

ERNS: Emergency Response Notification System

Standard Environmental Record Source: Federal ERNS list

Search Distance: Property

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 09/26/2016
Source: National Response Center, United States Coast Guard
Number of Days to Update: 43
Telephone: 202-267-2180
Last EDR Contact :06/28/2017

FEMA UST: Underground Storage Tank Listing

Standard Environmental Record Source: State and tribal registered storage tank lists

Search Distance: Property

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Source: FEMA
Number of Days to Update: 55
Telephone: 202-646-5797
Last EDR Contact :07/14/2017

FINDS: Facility Index System/Facility Registry System

Standard Environmental Record Source: Other Records

Search Distance: Property

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 04/04/2017
Source: EPA
Number of Days to Update: 35
Telephone: Not Reported
Last EDR Contact :06/07/2017

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Standard Environmental Record Source: Other Records

Search Distance: Property

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Number of Days to Update: 25
Last EDR Contact :05/19/2017
Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Standard Environmental Record Source: Other Records

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Number of Days to Update: 25
Last EDR Contact :05/19/2017
Source: EPA
Telephone: 202-566-1667

FUDS: Formerly Used Defense Sites

Standard Environmental Record Source: Other Records

Search Distance: 0.333 Mile

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015
Number of Days to Update: 97
Last EDR Contact :02/24/2017
Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285

FUELS PROGRAM: EPA Fuels Program Registered Listing

Standard Environmental Record Source: Other Records

Search Distance: Property

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 02/22/2017
Number of Days to Update: 79
Last EDR Contact :05/24/2017
Source: EPA
Telephone: 800-385-6164

FUSRAP: Formerly Utilized Sites Remedial Action Program

Standard Environmental Record Source: Other Records

Search Distance: 0.333 Mile

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 12/23/2016
Number of Days to Update: 52
Last EDR Contact :05/05/2017
Source: Department of Energy
Telephone: 202-586-3559

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

Standard Environmental Record Source: Other Records

Search Distance: Property

RECORD SOURCES AND CURRENCY

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Number of Days to Update: 40
Last EDR Contact :12/17/2007

Source: Environmental Protection Agency
Telephone: 202-564-2501

HMIRS: Hazardous Materials Information Reporting System
Standard Environmental Record Source: Other Records
Search Distance: Property

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/28/2016
Number of Days to Update: 37
Last EDR Contact :06/28/2017

Source: U.S. Department of Transportation
Telephone: 202-366-4555

ICIS: Integrated Compliance Information System
Standard Environmental Record Source: Other Records
Search Distance: Property

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Number of Days to Update: 79
Last EDR Contact :07/28/2017

Source: Environmental Protection Agency
Telephone: 202-564-2501

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
Standard Environmental Record Source: State and tribal leaking storage tank lists
Search Distance: 0.333 Mile

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 11/14/2016
Number of Days to Update: 99
Last EDR Contact :07/27/2017

Source: EPA Region 1
Telephone: 617-918-1313

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
Standard Environmental Record Source: State and tribal leaking storage tank lists
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 10/07/2016
Number of Days to Update: 99
Last EDR Contact :07/27/2017

Source: EPA Region 10
Telephone: 206-553-2857

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
Standard Environmental Record Source: State and tribal leaking storage tank lists
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 10/14/2016
Number of Days to Update: 98

Source: EPA Region 4
Telephone: 404-562-8677

Last EDR Contact :07/28/2017

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Standard Environmental Record Source: State and tribal leaking storage tank lists
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 11/14/2016
Number of Days to Update: 99
Last EDR Contact :07/27/2017
Source: EPA, Region 5
Telephone: 312-886-7439

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
Standard Environmental Record Source: State and tribal leaking storage tank lists
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 10/01/2016
Number of Days to Update: 99
Last EDR Contact :07/27/2017
Source: EPA Region 6
Telephone: 214-665-6597

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
Standard Environmental Record Source: State and tribal leaking storage tank lists
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 09/01/2016
Number of Days to Update: 99
Last EDR Contact :07/27/2017
Source: EPA Region 7
Telephone: 913-551-7003

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
Standard Environmental Record Source: State and tribal leaking storage tank lists
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/17/2016
Number of Days to Update: 99
Last EDR Contact :07/27/2017
Source: EPA Region 8
Telephone: 303-312-6271

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
Standard Environmental Record Source: State and tribal leaking storage tank lists
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 10/06/2016
Number of Days to Update: 99
Last EDR Contact :07/27/2017
Source: Environmental Protection Agency
Telephone: 415-972-3372

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Standard Environmental Record Source: Other Records
Search Distance: 0.333 Mile

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Number of Days to Update: 52
Last EDR Contact :05/01/2017
Source: Environmental Protection Agency
Telephone: 703-308-8245

INDIAN UST R1: Underground Storage Tanks on Indian Land
Standard Environmental Record Source: State and tribal registered storage tank lists

Search Distance: Property

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 11/14/2016 Source: EPA, Region 1
Number of Days to Update: 99 Telephone: 617-918-1313
Last EDR Contact :07/27/2017

INDIAN UST R10: Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal registered storage tank lists

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 10/07/2016 Source: EPA Region 10
Number of Days to Update: 99 Telephone: 206-553-2857
Last EDR Contact :07/27/2017

INDIAN UST R4: Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal registered storage tank lists

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 10/14/2016 Source: EPA Region 4
Number of Days to Update: 98 Telephone: 404-562-9424
Last EDR Contact :07/28/2017

INDIAN UST R5: Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal registered storage tank lists

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 01/14/2017 Source: EPA Region 5
Number of Days to Update: 99 Telephone: 312-886-6136
Last EDR Contact :07/27/2017

INDIAN UST R6: Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal registered storage tank lists

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 10/01/2016 Source: EPA Region 6
Number of Days to Update: 99 Telephone: 214-665-7591
Last EDR Contact :07/27/2017

INDIAN UST R7: Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal registered storage tank lists

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 09/01/2016 Source: EPA Region 7
Number of Days to Update: 99 Telephone: 913-551-7003
Last EDR Contact :07/27/2017

INDIAN UST R8: Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal registered storage tank lists

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 10/17/2016 Source: EPA Region 8
Number of Days to Update: 99 Telephone: 303-312-6137
Last EDR Contact :07/27/2017

INDIAN UST R9: Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal registered storage tank lists

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 10/06/2016 Source: EPA Region 9
Number of Days to Update: 99 Telephone: 415-972-3368
Last EDR Contact :07/27/2017

INDIAN VCP R1: Voluntary Cleanup Priority Listing

Standard Environmental Record Source: State and tribal voluntary cleanup sites
Search Distance: 0.333 Mile

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015 Source: EPA, Region 1
Number of Days to Update: 142 Telephone: 617-918-1102
Last EDR Contact :06/27/2017

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

Standard Environmental Record Source: State and tribal voluntary cleanup sites

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008 Source: EPA, Region 7
Number of Days to Update: 27 Telephone: 913-551-7365
Last EDR Contact :04/20/2009

LEAD SMELTER 1: Lead Smelter Sites

Standard Environmental Record Source: Other Records
Search Distance: Property

A listing of former lead smelter site locations.

Date of Government Version: 12/05/2016 Source: Environmental Protection Agency
Number of Days to Update: 36 Telephone: 703-603-8787
Last EDR Contact :07/07/2017

LEAD SMELTER 2: Lead Smelter Sites

Standard Environmental Record Source: Other Records

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001 Source: American Journal of Public Health
Number of Days to Update: 36 Telephone: 703-305-6451
Last EDR Contact :12/02/2009

LIENS 2: CERCLA Lien Information

Standard Environmental Record Source: Other Records

Search Distance: Property

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/18/2014
Number of Days to Update: 37
Last EDR Contact :07/26/2017

Source: Environmental Protection Agency
Telephone: 202-564-6023

LUCIS: Land Use Control Information System

Standard Environmental Record Source: Federal institutional controls / engineering controls registries

Search Distance: 0.333 Mile

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/28/2016
Number of Days to Update: 93
Last EDR Contact :05/15/2017

Source: Department of the Navy
Telephone: 843-820-7326

MLTS: Material Licensing Tracking System

Standard Environmental Record Source: Other Records

Search Distance: Property

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/30/2016
Number of Days to Update: 43
Last EDR Contact :05/08/2017

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169

NPL: National Priority List

Standard Environmental Record Source: Federal NPL site list

Search Distance: 0.333 Mile

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 04/05/2017
Number of Days to Update: 21
Last EDR Contact :07/07/2017

Source: EPA
Telephone: Not Reported

NPL Site Boundaries

Sources:

EPA"s Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-566-0690

EPA Region 1
Telephone: 617-918-1102

EPA Region 2
Telephone: 212-637-4293

EPA Region 3
Telephone: 215-814-5418

EPA Region 4
Telephone: 404-562-8681

EPA Region 5
Telephone: 312-353-1063

EPA Region 6
Telephone: 214-655-6659

EPA Region 7
Telephone: 913-551-7247

EPA Region 8
Telephone: 303-312-6118

EPA Region 9
Telephone: 415-947-4579

EPA Region 10
Telephone: 206-553-4479

NPL LIENS: Federal Superfund Liens

Standard Environmental Record Source: Federal NPL site list

Search Distance: Property

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Number of Days to Update: 56
Last EDR Contact :08/15/2011

Source: EPA
Telephone: 202-564-4267

ODI: Open Dump Inventory

Standard Environmental Record Source: Other Records

Search Distance: 0.333 Mile

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Number of Days to Update: 39
Last EDR Contact :06/09/2004

Source: Environmental Protection Agency
Telephone: 800-424-9346

PADS: PCB Activity Database System

Standard Environmental Record Source: Other Records

Search Distance: Property

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 01/20/2016
Number of Days to Update: 127
Last EDR Contact :04/10/2017

Source: EPA
Telephone: 202-566-0500

PCB TRANSFORMER: PCB Transformer Registration Database

Standard Environmental Record Source: Other Records

Search Distance: Property

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011
Number of Days to Update: 83

Source: Environmental Protection Agency
Telephone: 202-566-0517

Last EDR Contact :07/28/2017

Proposed NPL: Proposed National Priority List Sites

Standard Environmental Record Source: Federal NPL site list

Search Distance: 0.333 Mile

A site that has been proposed for listing on the NationalPriorities List through the issuance of a proposed rule in the Federal Register.EPA then accepts public comments on the site, responds to the comments,and places on the NPL those sites that continue to meet therequirements for listing.

Date of Government Version: 04/05/2017 Source: EPA

Number of Days to Update: 21 Telephone: Not Reported

Last EDR Contact :07/07/2017

RAATS: RCRA Administrative Action Tracking System

Standard Environmental Record Source: Other Records

Search Distance: Property

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995 Source: EPA

Number of Days to Update: 35 Telephone: 202-564-4104

Last EDR Contact :06/02/2008

RADINFO: Radiation Information Database

Standard Environmental Record Source: Other Records

Search Distance: Property

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 01/04/2017 Source: Environmental Protection Agency

Number of Days to Update: 35 Telephone: 202-343-9775

Last EDR Contact :07/12/2017

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

Standard Environmental Record Source: Other Records

Search Distance: Property

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 12/12/2016 Source: Environmental Protection Agency

Number of Days to Update: 44 Telephone: 703-308-8895

Last EDR Contact :06/29/2017

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

Standard Environmental Record Source: Federal RCRA generators list

Search Distance: Property

RECORD SOURCES AND CURRENCY

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/12/2016
Source: Environmental Protection Agency
Number of Days to Update: 44
Telephone: 703-308-8895
Last EDR Contact :06/29/2017

RCRA-LQG: RCRA - Large Quantity Generators

Standard Environmental Record Source: Federal RCRA generators list

Search Distance: Property

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/12/2016
Source: Environmental Protection Agency
Number of Days to Update: 44
Telephone: 703-308-8895
Last EDR Contact :06/29/2017

RCRA-SQG: RCRA - Small Quantity Generators

Standard Environmental Record Source: Federal RCRA generators list

Search Distance: Property

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 12/12/2016
Source: Environmental Protection Agency
Number of Days to Update: 44
Telephone: 703-308-8895
Last EDR Contact :06/29/2017

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

Standard Environmental Record Source: Federal RCRA TSD facilities list

Search Distance: 0.333 Mile

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 12/12/2016
Source: Environmental Protection Agency
Number of Days to Update: 44
Telephone: 703-308-8895
Last EDR Contact :06/29/2017

ROD: Records Of Decision

Standard Environmental Record Source: Other Records

Search Distance: 0.333 Mile

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 11/25/2013
Source: EPA

Number of Days to Update: 74 Telephone: 703-416-0223

Last EDR Contact :06/09/2017

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

Standard Environmental Record Source: Other Records

Search Distance: 0.333 Mile

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017 Source: Environmental Protection Agency

Number of Days to Update: 63 Telephone: 615-532-8599

Last EDR Contact :05/19/2017

SEMS: Superfund Enterprise Management System

Standard Environmental Record Source: Federal CERCLIS list

Search Distance: 0.333 Mile

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 02/07/2017 Source: EPA

Number of Days to Update: 16 Telephone: 800-424-9346

Last EDR Contact :07/21/2017

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

Standard Environmental Record Source: Other Records

Search Distance: 0.333 Mile

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 02/07/2017 Source: EPA

Number of Days to Update: 16 Telephone: 800-424-9346

Last EDR Contact :07/28/2017

SSTS: Section 7 Tracking Systems

Standard Environmental Record Source: Other Records

Search Distance: Property

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009 Source: EPA

Number of Days to Update: 77 Telephone: 202-564-4203

Last EDR Contact :07/28/2017

TRIS: Toxic Chemical Release Inventory System

Standard Environmental Record Source: Other Records

Search Distance: Property

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2014 Source: EPA

Number of Days to Update: 133 Telephone: 202-566-0250

Last EDR Contact :05/26/2017

TSCA: Toxic Substances Control Act

Standard Environmental Record Source: Other Records

Search Distance: Property

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2012 Source: EPA

Number of Days to Update: 14 Telephone: 202-260-5521

Last EDR Contact :06/21/2017

UMTRA: Uranium Mill Tailings Sites

Standard Environmental Record Source: Other Records

Search Distance: 0.333 Mile

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010 Source: Department of Energy

Number of Days to Update: 146 Telephone: 505-845-0011

Last EDR Contact :05/22/2017

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

Standard Environmental Record Source: Other Records

Search Distance: Property

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016 Source: EPA

Number of Days to Update: 100 Telephone: 202-564-2496

Last EDR Contact :06/21/2017

US AIRS MINOR: Air Facility System Data

Standard Environmental Record Source: Other Records

A listing of minor source facilities.

Date of Government Version: 10/12/2016 Source: EPA

Number of Days to Update: 100 Telephone: 202-564-2496

Last EDR Contact :06/21/2017

US BROWNFIELDS: A Listing of Brownfields Sites

Standard Environmental Record Source: Other Records

Search Distance: 0.333 Mile

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 03/02/2017
Source: Environmental Protection Agency
Number of Days to Update: 36
Telephone: 202-566-2777
Last EDR Contact :06/20/2017

US CDL: Clandestine Drug Labs

Standard Environmental Record Source: Other Records

Search Distance: Property

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 02/09/2017
Source: Drug Enforcement Administration
Number of Days to Update: 93
Telephone: 202-307-1000
Last EDR Contact :05/31/2017

US ENG CONTROLS: Engineering Controls Sites List

Standard Environmental Record Source: Federal institutional controls / engineering controls registries

Search Distance: Property

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 02/13/2017
Source: Environmental Protection Agency
Number of Days to Update: 101
Telephone: 703-603-0695
Last EDR Contact :05/31/2017

US FIN ASSUR: Financial Assurance Information

Standard Environmental Record Source: Other Records

Search Distance: Property

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 02/13/2017
Source: Environmental Protection Agency
Number of Days to Update: 86
Telephone: 202-566-1917
Last EDR Contact :05/17/2017

US HIST CDL: National Clandestine Laboratory Register

Standard Environmental Record Source: Other Records

Search Distance: Property

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 02/09/2017
Number of Days to Update: 93
Last EDR Contact :02/28/2017

Source: Drug Enforcement Administration
Telephone: 202-307-1000

US INST CONTROL: Sites with Institutional Controls

Standard Environmental Record Source: Federal institutional controls / engineering controls registries

Search Distance: Property

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 02/13/2017
Number of Days to Update: 101
Last EDR Contact :05/31/2017

Source: Environmental Protection Agency
Telephone: 703-603-0695

US MINES: Mines Master Index File

Standard Environmental Record Source: Other Records

Search Distance: Property

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/08/2017
Number of Days to Update: 38
Last EDR Contact :05/31/2017

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

Standard Environmental Record Source: Other Records

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005
Number of Days to Update: 49
Last EDR Contact :05/31/2017

Source: USGS
Telephone: 703-648-7709

US MINES 3: Active Mines & Mineral Plants Database Listing

Standard Environmental Record Source: Other Records

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Number of Days to Update: 97
Last EDR Contact :06/02/2017

Source: USGS
Telephone: 703-648-7709

AOCONCERN: San Gabriel Valley Areas of Concern

Standard Environmental Record Source: Other Records

Search Distance: 0.333 Mile

San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 03/30/2009
Number of Days to Update: 206

Source: EPA Region 9
Telephone: 415-972-3178

RECORD SOURCES AND CURRENCY

Last EDR Contact :06/16/2017

DOD: Department of Defense Sites

Standard Environmental Record Source: Other Records

Search Distance: 0.333 Mile

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005 Source: USGS

Number of Days to Update: 62 Telephone: 888-275-8747

Last EDR Contact :07/12/2017

INDIAN RESERV: Indian Reservations

Standard Environmental Record Source: Other Records

Search Distance: Property

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014 Source: USGS

Number of Days to Update: N/A Telephone: 202-208-3710

Last EDR Contact :07/11/2017

PWS: Public Water System Data

Standard Environmental Record Source: Other Records

Search Distance: Property

This Safe Drinking Water Information System (SDWIS) file contains public water systems name and address, population served and the primary source of water

Date of Government Version: 12/17/2013 Source: EPA

Number of Days to Update: 279 Telephone: Not Reported

Last EDR Contact :05/29/2017

RECORD SOURCES AND CURRENCY

HISTORICAL USE RECORDS

RGA LF: Recovered Government Archive Solid Waste Facilities List

Standard Environmental Record Source: Exclusive Recovered Govt. Archives

Search Distance: Property

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: Not Reported
Source: Department of Resources Recycling and Recovery
Number of Days to Update: 196
Telephone: Not Reported
Last EDR Contact :06/01/2012

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

Standard Environmental Record Source: Exclusive Recovered Govt. Archives

Search Distance: Property

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: Not Reported
Source: State Water Resources Control Board
Number of Days to Update: 182
Telephone: Not Reported
Last EDR Contact :06/01/2012

EDR Hist Auto: EDR Exclusive Historic Gas Stations

Standard Environmental Record Source: Historical Gas Stations

Search Distance: 0.125 Mile

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: 02/20/2007
Source: EDR, Inc.
Number of Days to Update: 42
Telephone: Not Reported
Last EDR Contact :02/21/2007

EDR Hist Cleaner: EDR Exclusive Historic Dry Cleaners

Standard Environmental Record Source: Historical Dry Cleaners

Search Distance: 0.125 Mile

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: 02/20/2007
Source: EDR, Inc.
Number of Days to Update: 42
Telephone: Not Reported
Last EDR Contact :02/21/2007

EDR MGP: EDR Proprietary Manufactured Gas Plants

Standard Environmental Record Source: Former Manufactured Gas Plants

Search Distance: 0.333 Mile

RECORD SOURCES AND CURRENCY

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: 08/28/2009
Number of Days to Update: 55
Last EDR Contact :11/30/2012

Source: EDR, Inc.
Telephone: Not Reported

RECORD SOURCES AND CURRENCY

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5' minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW® Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW® Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services. The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

STREET AND ADDRESS INFORMATION

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Appendix G

LIST OF ACRONYMS USED

AAI	All Appropriate Inquiry
ACM	Asbestos Containing Material
APN	Assessor's Parcel Number
AST	Aboveground Storage Tank
ASTM	American Society for Testing Materials
AULs	Activity and Use Limitations
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act of 1980
CERCLIS	Comprehensive Environmental Response, Compensation and Liability Information System
CFR	Code of Federal Regulations
CORRACTS	Facilities subject to Corrective Action under RCRA
DTSC	California Department of Toxic Substances Control
DWR	California Department of Water Resources
EDR	Environmental Data Resources Inc.
FEMA	Federal Emergency Management Agency
LBP	Lead-Based Paint
LLP	Landowner Liability Protections under the Brownfields Amendments
LUST	Leaking Underground Storage Tank
NPL	National Priority List
RESPONSE	State Response Sites
SLIC	Spills, Leaks, Investigations and Cleanup
USC	United States Code
USEPA	United States Environmental Protection Agency
USGS	United States Geological Survey
UST	Underground Storage Tank
VCP	Voluntary Cleanup Program Properties

Appendix G1

Project-Specific Water Quality Management Plan
TPM 37547

Project Specific Water Quality Management Plan

*A Template for preparing Project Specific WQMPs for Priority Development Projects located within the **Santa Margarita Region** of **Riverside County**. This template does not apply to projects in other watersheds within Riverside County. It does not apply to projects in San Diego or Orange County.*

Attention: This submittal package only applies to "Priority Development Projects" and does not apply to "Other Development Projects". Proceed only if the Applicabilty Checklist completed for your project categorizes project activities as a "Priority Development Project."

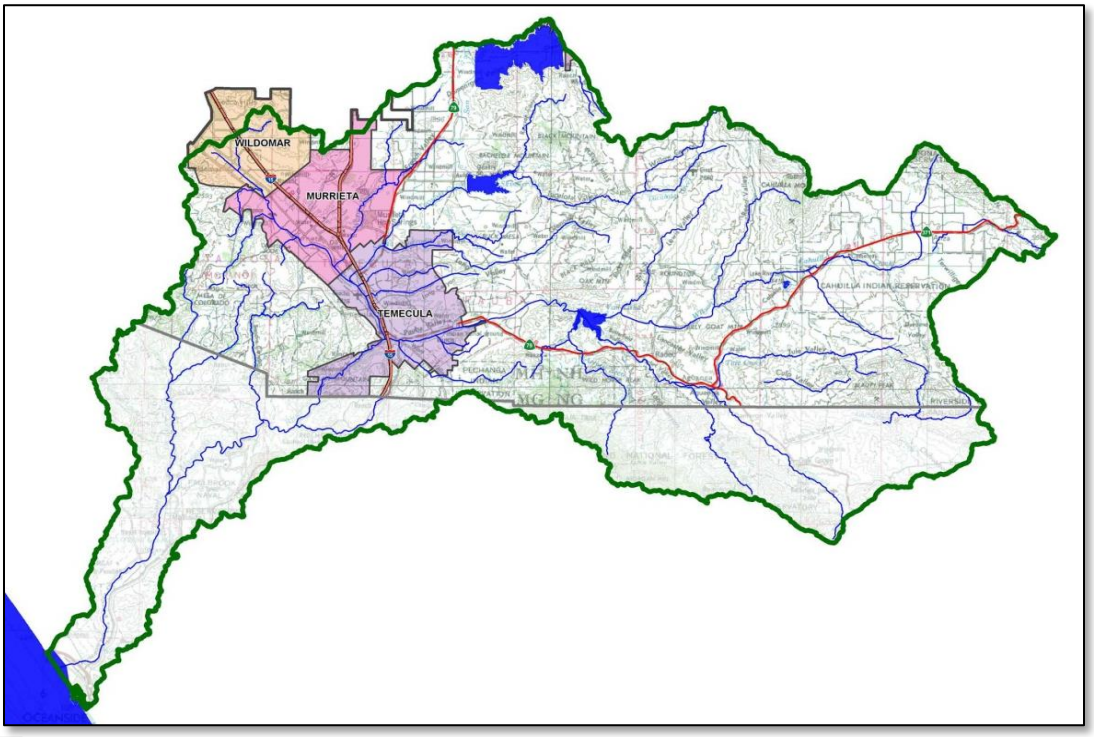
Project Title: TPM 37547

Development No: DP-2018-1691, TPM-2018-1702

Design Review/Case No: Insert text here

Prepared for: CURCI, LLC, A CALIFORNIA LTD PARTNERSHIP

Prepared by: EXCEL ENGINEERING
440 State Place
Escondido, CA 92029



☒ **Preliminary**
☐ **Final**

Original Date Prepared: June 7, 2018

Revision Date(s): January 9, 2019, August 5, 2019

Prepared for Compliance with Regional Board Order No. **R9-2013-0001** *as amended by Order No.* **R9-2015-0001** *and Order No.* **R9-2015-0100**

A Brief Introduction

The Regional Municipal Separate Stormwater Sewer System (MS4) Permit[1] requires that a Project-Specific WQMP be prepared for all development projects within the Santa Margarita Region (SMR) that meet the 'Priority Development Project' categories and thresholds listed in the SMR Water Quality Management Plan (WQPM). This Project-Specific WQMP Template for Development Projects in the **Santa Margarita Region** has been prepared to help document compliance and prepare a WQMP submittal. Below is a flowchart for the layout of this Template that will provide the steps required to document compliance.



[1] Order No. R9-2013-0001 as amended by Order Nos. R9-2015-0001 and R9-2015-0100, NPDES No. CAS0109266, National Pollutant Discharge Elimination System (NPDES) Permit and Waste Discharge Requirements for Discharges from the MS4s Draining the Watersheds within the San Diego Region, California Regional Water Quality Control Board, May 8, 2013.

OWNER'S CERTIFICATION

This Project-Specific WQMP has been prepared for CURCI, LLC A California Partnership by EXCEL ENGINEERING for the TPM 37547 project.

This WQMP is intended to comply with the requirements of City of Murrieta Stormwater and Runoff Management and Discharge Controls Municipal Code Section 8.36.320, Water Quality Management Plan, which includes the requirement for the preparation and implementation of a Project-Specific WQMP.

The undersigned, while owning the property/project described in the preceding paragraph, shall be responsible for the implementation and funding of this WQMP and will ensure that this WQMP is amended as appropriate to reflect up-to-date conditions on the site. In addition, the property owner accepts responsibility for interim operation and maintenance of Stormwater Best Management Practices until such time as this responsibility is formally transferred to a subsequent owner. This WQMP will be reviewed with the facility operator, facility supervisors, employees, tenants, maintenance and service contractors, or any other party (or parties) having responsibility for implementing portions of this WQMP. At least one copy of this WQMP will be maintained at the project site or project office in perpetuity. The undersigned is authorized to certify and to approve implementation of this WQMP. The undersigned is aware that implementation of this WQMP is enforceable under the City of Murrieta Stormwater and Runoff Management and Discharge Controls (Municipal Code Section 8.36).

"I, the undersigned, certify under penalty of law that the provisions of this WQMP have been reviewed and accepted and that the WQMP will be transferred to future successors in interest."

Owner's Signature	Date
Owner's Printed Name	Owner's Title/Position

PREPARER'S CERTIFICATION

"The selection, sizing and design of stormwater treatment and other stormwater quality and quantity control Best Management Practices in this plan meet the requirements of Regional Water Quality Control Board Order No. **R9-2013-0001** as amended by Order Nos. **R9-2015-0001 and R9-2015-0100**."

Preparer's Signature	Date
Robert D. Dentino	Engineer of Work
Preparer's Printed Name	Preparer's Title/Position

Preparer's Licensure:

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Section A: Project and Site Information

Use the table below to compile and summarize basic site information that will be important for completing subsequent steps. Subsections A.1 through A.4 provide additional detail on documentation of additional project and site information.

PROJECT INFORMATION		
Type of PDP:	New Development	
Type of Project:	Commercial	
Planning Area:	Community Commercial	
Community Name:	Community Commercial	
Development Name:		
PROJECT LOCATION		
Latitude & Longitude (DMS):	$33^0 35'57.7"N\ 117^0 10'21.09"W$	
Project Watershed and Sub-Watershed:	Santa Margarita River, Murrieta (HSA 902.32)	
24-Hour 85th Percentile Storm Depth (inches):	Insert text here, refer to SMR WQMP Exhibit A	
Is project subject to Hydromodification requirements?	☐ Y ☐ N (Select based on Section A.3)	
APN(s):	392-270-030 through 033	
Map Book and Page No.:	Page 898 Grid C7	
PROJECT CHARACTERISTICS		
Proposed or Potential Land Use(s)		Commercial
Proposed or Potential SIC Code(s)		Division G & I
Existing Impervious Area of Project Footprint (SF)		Insert text here
Total area of proposed Impervious Surfaces within the Project Limits (SF)/or Replacement		236,388 SF
Total Project Area (ac)		6.665 ACRES
Does the project consist of offsite road improvements?		☒ Y ☐ N
Does the project propose to construct unpaved roads?		☐ Y ☒ N
Is the project part of a larger common plan of development (phased project)?		☐ Y ☒ N
Is the project exempt from Hydromodification Performance Standards?		☐ Y ☒ N
Does the project propose the use of Alternative Compliance to satisfy BMP requirements? (note, alternative compliance is not allowed for coarse sediment performance standards)		☐ Y ☒ N
Has preparation of Project-Specific WQMP included coordination with other site plans?		☒ Y ☐ N
EXISTING SITE CHARACTERISTICS		
Is the project located within any Multi-Species Habitat Conservation Plan area (MSHCP Criteria Cell?)		☐ Y ☒ N If "Y" insert Cell Number
Are there any natural hydrologic features on the project site?		☐ Y ☒ N
Is a Geotechnical Report attached?		☐ Y ☒ N
If no Geotech. Report, list the Natural Resources Conservation Service (NRCS) soils type(s) present on the site (A, B, C and/or D)		Type C and D

A.1 Maps and Site Plans

When completing your Project-Specific WQMP, include a map of the Project vicinity and existing site. In addition, include all grading, drainage, landscape/plant palette and other pertinent construction plans in Appendix 2. At a **minimum**, your WQMP Site Plan should include the following:

- Vicinity and location maps
- Parcel Boundary and Project Footprint
- Existing and Proposed Topography
- Drainage Management Areas (DMAs)
- Proposed Structural Best Management Practices (BMPs)
- Drainage Paths
- Drainage infrastructure, inlets, overflows
- Source Control BMPs
- Site Design BMPs
- Buildings, Roof Lines, Downspouts
- Impervious Surfaces
- Pervious Surfaces (i.e. Landscaping)
- Standard Labeling

Use your discretion on whether or not you may need to create multiple sheets or can appropriately accommodate these features on one or two sheets. Keep in mind that the Copermittee plan reviewer must be able to easily analyze your Project utilizing this template and its associated site plans and maps. Complete the checklists in Appendix 1 to verify that all exhibits and components are included.

A.2 Identify Receiving Waters

Using Table A-1 below, list in order of upstream to downstream, the Receiving Waters that the Project site is tributary to. Continue to fill each row with the Receiving Water's 303(d) listed impairments (if any), designated Beneficial Uses, and proximity, if any, to a RARE Beneficial Use. Include a map of the Receiving Waters in Appendix 1. This map should identify the path of the stormwater discharged from the site all the way to the outlet of the Santa Margarita River to the Pacific Ocean. Use the most recent 303(d) list available from the State Water Resources Control Board Website.
(http://www.waterboards.ca.gov/sandiego/water_issues/programs/basin_plan/)

Table A-1 Identification of Receiving Waters

Receiving Waters	USEPA Approved 303(d) List Impairments	Designated Beneficial Uses	Proximity to RARE Beneficial Use
Murrieta Creek 902.32	Chlorpyrifos, Escherichia coli (E. coli), Fecal Coliform, Iron, Manganese, Phosphorus, Total Nitrogen as N	Municipal & Domestic Supply, Agricultural, Industrial service, Industrial process, Ground Water Recharge, Noncontact water recreation, Warm Freshwater habitat, wildlife habitat	None

A.3 Drainage System Susceptibility to Hydromodification

Using Table A-2 below, list in order of the point of discharge at the project site down to the Santa Margarita River[2], each drainage system or receiving water that the project site is tributary to. Continue to fill each row with the material of the drainage system, and any exemption (if applicable). Based on the results, summarize the applicable hydromodification performance standards that will be documented in Section E. Exempted categories of receiving waters include:

[2] Refer to Exhibit G of the WQMP for a map of exempt and potentially exempt areas. These maps are from the Draft SMR WMAA as of January 5, 2018 and will be replaced upon acceptance of the SMR WMAA.

- Existing storm drains that discharge directly to water storage reservoirs, lakes, or enclosed embayments, or
- Conveyance channels whose bed and bank are concrete lined all the way from the point of discharge to water storage reservoirs, lakes, enclosed embayments, or the Pacific Ocean.
- Other water bodies identified in an approved WMAA (See Exhibit G to the WQMP)

Include a map exhibiting each drainage system and the associated susceptibility in Appendix 1.

Table A-2 Identification of Susceptibility to Hydromodification

Drainage System	Drainage System Material	Hydromodification Exemption	Hydromodification Exempt
38 Feet of 24" RCP Public storm drain	24" RCP storm drain	Low susceptibility	☐ Y ☒ N
400 ft of Public Stormdrain	Public 30" RCP	Low susceptibility	☐ Y ☒ N
4.64 miles of city storm drain	Natural Open Channel	High susceptibility	☐ Y ☒ N
Summary of Performance Standards			
☐ **Hydromodification Exempt** – Select if "Y" is selected in the Hydromodification Exempt column above, project is exempt from hydromodification requirements. ☒ **Not Exempt**-Select if "N" is selected in any row of the Hydromodification Exempt column above. Project is subject to hydrologic control requirements and may be subject to sediment supply requirements.			

A.4 Additional Permits/Approvals required for the Project:

Table A-3 Other Applicable Permits

Agency	Permit Required	
State Department of Fish and Game, 1602 Streambed Alteration Agreement	☐ Y	☒ N
State Water Resources Control Board, Clean Water Act Section 401 Water Quality Certification	☐ Y	☒ N
US Army Corps of Engineers, Clean Water Act Section 404 Permit	☐ Y	☒ N
US Fish and Wildlife, Endangered Species Act Section 7 Biological Opinion	☐ Y	☒ N
Statewide Construction General Permit Coverage	☒ Y	☐ N
Statewide Industrial General Permit Coverage	☐ Y	☒ N
Western Riverside MSHCP Consistency Approval (e.g., JPR, DBESP)	☒ Y	☐ N
Other *(please list in the space below as required)*	☐ Y	☒ N

If yes is answered to any of the questions above, the Copermittee may require proof of approval/coverage from those agencies as applicable including documentation of any associated requirements that may affect this Project-Specific WQMP.

Section B: Optimize Site Utilization (LID Principles)

Review of the information collected in Section 'A' will aid in identifying the principal constraints on site design and selection of LID BMPs as well as opportunities to reduce imperviousness and incorporate LID Principles into the site and landscape design. For example, **constraints** might include impermeable soils, high groundwater, groundwater pollution or contaminated soils, steep slopes, geotechnical instability, high-intensity land use, heavy pedestrian or vehicular traffic, utility locations or safety concerns. **Opportunities** might include existing natural areas, low areas, oddly configured or otherwise unbuildable parcels, easements and landscape amenities including open space and buffers (which can double as locations for LID Bioretention BMPs), and differences in elevation (which can provide hydraulic head). Prepare a brief narrative for each of the site optimization strategies described below. This narrative will help you as you proceed with your Low Impact Development (LID) design and explain your design decisions to others.

Apply the following LID Principles to the layout of the PDP to the extent they are applicable and feasible. Putting thought upfront about how best to organize the various elements of a site can help to significantly reduce the PDP's potential impact on the environment and reduce the number and size of Structural LID BMPs that must be implemented. Integrate opportunities to accommodate the following LID Principles within the preliminary PDP site layout to maximize implementation of LID Principles.

Site Optimization

Complete checklist below to determine applicable Site Design BMPs for your site.

Project- Specific WQMP Site Design BMP Checklist

The following questions below are based upon Section 3.2 of the SMR WQMP will help you determine how to best optimize your site and subsequently identify opportunities and/or constraints, and document compliance.

SITE DESIGN REQUIREMENTS

Answer the following questions below by indicating "Yes," "No," or "N/A" (Not Applicable). Justify all "No" and "N/A" answers by inserting a narrative at the end of the section. The narrative should include identification and justification of any constraints that would prevent the use of those categories of LID BMPs. Upon identifying Site Design BMP opportunities, include these on your WQMP Site plan in Appendix 1.

☒ Yes ☐ No ☐ N/A

Did you identify and preserve existing drainage patterns?

Integrating existing drainage patterns into the site plan helps to maintain the time of concentration and infiltration rates of runoff, decreasing peak flows, and may also help preserve the contribution of Critical Coarse Sediment (i.e., Bed Sediment Supply) from the PDP to the Receiving Water. Preserve existing drainage patterns by:

- Minimizing unnecessary site grading that would eliminate small depressions, where appropriate add additional "micro" storage throughout the site landscaping.
- Where possible conform the PDP site layout along natural landforms, avoid excessive grading and disturbance of vegetation and soils, preserve or replicate the sites natural drainage features and patterns.
- Set back PDP improvements from creeks, wetlands, riparian habitats and any other natural water bodies.
- Use existing and proposed site drainage patterns as a natural design element, rather than using expensive impervious conveyance systems. Use depressed landscaped areas, vegetated buffers, and bioretention areas as amenities and focal points within the site and landscape design.

Discuss how this was included or provide a discussion/justification for "No" or "N/A" answer.
Depressed landscaping used to allow retention of the VBMP along with biofiltration

☐ Yes ☐ No ☒ N/A

Did you identify and protect existing vegetation?

Identify any areas containing dense native vegetation or well-established trees, and try to avoid disturbing these areas. Soils with thick, undisturbed vegetation have a much higher capacity to store and infiltrate runoff than do disturbed soils. Reestablishment of a mature vegetative community may take decades. Sensitive areas, such as streams and floodplains should also be avoided.

- Define the development envelope and protected areas, identifying areas that are most suitable for development and areas that should be left undisturbed.
- Establish setbacks and buffer zones surrounding sensitive areas.
- Preserve significant trees and other natural vegetation where possible.

Discuss how this was included or provide a discussion/justification for "No" or "N/A" answer. *No native vegetation on site.*

Project- Specific WQMP Site Design BMP Checklist	
☐ Yes ☒ No ☐ N/A	**Did you identify and preserve natural infiltration capacity?** A key component of LID is taking advantage of a site's natural infiltration and storage capacity. A site survey and geotechnical investigation can help define areas with high potential for infiltration and surface storage. • Identify opportunities to locate LID Principles and Structural BMPs in highly pervious areas. Doing so will maximize infiltration and limit the amount of runoff generated. • Concentrate development on portions of the site with less permeable soils, and preserve areas that can promote infiltration.
Discuss how this was included or provide a discussion/justification for "No" or "N/A" answer. *Insert discussion/justification here* At this preliminary stage in the development process, it would be infeasible to test the soils natural infiltration and storage capacity due to the existing ground being 30ft higher than finished grade will be. However, during final engineering, the proposed locations for structural BMPS will be thoroughly tested for potential infiltration which will be implemented when possible.	
☒ Yes ☐ No ☐ N/A	**Did you minimize impervious area?** Look for opportunities to limit impervious cover through identification of the smallest possible land area that can be practically impacted or disturbed during site development. • Limit overall coverage of paving and roofs. This can be accomplished by designing compact, taller structures, narrower and shorter streets and sidewalks, clustering buildings and sharing driveways, smaller parking lots (fewer stalls, smaller stalls, and more efficient lanes), and indoor or underground parking. • Inventory planned impervious areas on your preliminary site plan. Identify where permeable pavements, or other permeable materials, such as crushed aggregate, turf block, permeable modular blocks, pervious concrete or pervious asphalt could be substituted for impervious concrete or asphalt paving. This will help reduce the amount of Runoff that may need to be addressed through Structural BMPs. • Examine site layout and circulation patterns and identify areas where landscaping can be substituted for pavement, such as for overflow parking. • Consider green roofs. Green roofs are roofing systems that provide a layer of soil/vegetative cover over a waterproofing membrane. A green roof mimics pre-development conditions by filtering, absorbing, and evapotranspiring precipitation to help manage the effects of an otherwise impervious rooftop.
Discuss how this was included or provide a discussion/justification for "No" or "N/A" answer. *Insert discussion/justification here* Driveways and sidewalks have been reduced to the minimum widths as well as only providing the minimum number of parking stalls require by the site use.	

Project- Specific WQMP Site Design BMP Checklist	
☒ Yes ☐ No ☐ N/A	**Did you identify and disperse runoff to adjacent pervious areas or small collection areas?** Look for opportunities to direct runoff from impervious areas to adjacent landscaping, other pervious areas, or small collection areas where such runoff may be retained. This is sometimes referred to as reducing Directly Connected Impervious Areas. • Direct roof runoff into landscaped areas such as medians, parking islands, planter boxes, etc., and/or areas of pervious paving. Instead of having landscaped areas raised above the surrounding impervious areas, design them as depressed areas that can receive Runoff from adjacent impervious pavement. For example, a lawn or garden depressed 3"-4" below surrounding walkways or driveways provides a simple but quite functional landscape design element. • Detain and retain runoff throughout the site. On flatter sites, smaller Structural BMPs may be interspersed in landscaped areas among the buildings and paving. • On hillside sites, drainage from upper areas may be collected in conventional catch basins and piped to landscaped areas and LID BMPs and/or Hydrologic Control BMPs in lower areas. Low retaining walls may also be used to create terraces that can accommodate LID BMPs. Wherever possible, direct drainage from landscaped slopes offsite and not to impervious surfaces like parking lots. • Reduce curb maintenance and provide for allowances for curb cuts. • Design landscaped areas or other pervious areas to receive and infiltrate runoff from nearby impervious areas. • Use Tree Wells to intercept, infiltrate, and evapotranspire precipitation and runoff before it reaches structural BMPs. Tree wells can be used to limit the size of Drainage Management Areas that must be treated by structural BMPs. Guidelines for Tree Wells are included in the Tree Well Fact Sheet in the LID BMP Design Handbook.
Discuss how this was included or provide a discussion/justification for "No" or "N/A" answer. *Insert discussion/justification here*	
☒ Yes ☐ No ☐ N/A	**Did you utilize native or drought tolerant species in site landscaping?** Wherever possible, use native or drought tolerant species within site landscaping instead of alternatives. These plants are uniquely suited to local soils and climate and can reduce the overall demands for potable water use associated with irrigation.
Discuss how this was included or provide a discussion/justification for "No" or "N/A" answer. *Insert discussion/justification here*	

Project- Specific WQMP Site Design BMP Checklist	
☐ Yes ☐ No ☒ N/A	**Did implement harvest and use of runoff?** Under the Regional MS4 Permit, Harvest and Use BMPs must be employed to reduce runoff on any site where they are applicable and feasible. However, Harvest and Use BMPs are effective for retention of stormwater runoff only when there is adequate demand for non-potable water during the wet season. If demand for non-potable water is not sufficiently large, the actual retention of stormwater runoff will be diminished during larger storms or during back-to-back storms. For the purposes of planning level Harvest and Use BMP feasibility screening, Harvest and Use is only considered to be a feasible if the total average wet season demand for non-potable water is sufficiently large to use the entire DCV within 72 hours. If the average wet season demand for non-potable water is not sufficiently large to use the entire DCV within 72 hours, then Harvest and Use is not considered to be feasible and need not be considered further. The general feasibility and applicability of Harvest and Use BMPs should consider: • Any downstream impacts related to water rights that could arise from capturing stormwater (not common). • Conflicts with recycled water used – where the project is conditioned to use recycled water for irrigation, this should be given priority over stormwater capture as it is a year-round supply of water. • Code Compliance - If a particular use of captured stormwater, and/or available methods for storage of captured stormwater would be contrary to building codes in effect at the time of approval of the preliminary Project-Specific WQMP, then an evaluation of harvesting and use for that use would not be required. • Wet season demand – the applicant shall demonstrate, to the acceptance of the [Insert Jurisdiction], that there is adequate demand for harvested water during the wet season to drain the system in a reasonable amount of time.
Discuss how this was included or provide a discussion/justification for "No" or "N/A" answer. *Insert discussion/justification here*	
☒ Yes ☐ No ☐ N/A	**Did you keep the runoff from sediment producing pervious area hydrologically separate from developed areas that require treatment?** Pervious area that qualify as self-treating areas or off-site open space should be kept separate from drainage to structural BMPs whenever possible. This helps limit the required size of structural BMPs, helps avoid impacts to sediment supply, and helps reduce clogging risk to BMPs.
Discuss how this was included or provide a discussion/justification for "No" or "N/A" answer. *Insert discussion/justification here*	

Section C: Delineate Drainage Management Areas (DMAs)

This section provides streamlined guidance and documentation of the DMA delineation and categorization process, for additional information refer to the procedure in Section 3.3 of the SMR WQMP which discusses the methods of delineating and mapping your project site into individual DMAs. Complete Steps 1 to 4 to successfully delineate and categorize DMAs.

Step 1: Identify Surface Types and Drainage Pathways

Carefully delineate pervious areas and impervious areas (including roofs) throughout site and identify overland flow paths and above ground and below ground conveyances. Also identify common points (such as BMPs) that these areas drain to.

Step 2: DMA Delineation

Use the information in Step 1 to divide the entire PDP site into individual, discrete DMAs. Typically, lines delineating DMAs follow grade breaks and roof ridge lines. Where possible, establish separate DMAs for each surface type (e.g., landscaping, pervious paving, or roofs). Assign each DMA a unique code and determine its size in square feet. The total area of your site should total the sum of all of your DMAs (unless water from outside the project limits comingles with water from inside the project limits, i.e. run-on). Complete Table C-1

Table C-1 DMA Identification

DMA Name or Identification	Surface Type(s)[1]	Area (Sq. Ft.)	DMA Type
A	Mixed	179,743	To be Determined in Step 3
B	Mixed	37,522	
C	Mixed	9,024	
D	Mixed	35,499	
E	Mixed	6,068	
F	Landscape	6,077	
G	Mixed	9,474	
H	Landscape	4,264	

Add Columns as Needed

Step 3: DMA Classification

Determine how drainage from each DMA will be handled by using information from Steps 1 and 2 and by completing Steps 3.A to 3.C. Each DMA will be classified as one of the following four types:

- Type 'A': Self-Treating Areas:
- Type 'B': Self-Retaining Areas
- Type 'C': Areas Draining to Self-Retaining Areas
- Type 'D': Areas Draining to BMPs

Step 3.A – Identify Type 'A' Self-Treating Area

Indicate if the DMAs meet the following criteria by answering "Yes" or "No".

☒ Yes ☐ No — Area is undisturbed from their natural condition OR restored with Native and/or California Friendly vegetative covers.

☒ Yes ☐ No	Area is irrigated, if at all, with appropriate low water use irrigation systems to prevent irrigation runoff.
☒ Yes ☐ No	Runoff from the area will not comingle with runoff from the developed portion of the site, or across other landscaped areas that do not meet the above criteria.

If all answers indicate "Yes," complete Table C-2 to document the DMAs that are classified as Self-Treating Areas.

Table C-2 Type 'A', Self-Treating Areas

DMA Name or Identification	Area (Sq. Ft.)	Stabilization Type	Irrigation Type (if any)
F	11,675	Native Low Water Use	Drip Irrigation
H	4,264	Native Low Water Use	Drip Irrigation

Step 3.B – Identify Type 'B' Self-Retaining Area and Type 'C' Areas Draining to Self-Retaining Areas

Type 'B' Self-Retaining Area: A Self-Retaining Area is shallowly depressed 'micro infiltration' areas designed to retain the Design Storm rainfall that reaches the area, without producing any Runoff.

Indicate if the DMAs meet the following criteria by answering "Yes," "No," or "N/A".

☐ Yes ☐ No ☒ N/A	Slopes will be graded toward the center of the pervious area.
☐ Yes ☐ No ☒ N/A	Soils will be freely draining to not create vector or nuisance conditions.
☐ Yes ☐ No ☒ N/A	Inlet elevations of area/overflow drains, if any, should be clearly specified to be three inches or more above the low point to promote ponding.
☐ Yes ☐ No ☒ N/A	Pervious pavements (e.g., crushed stone, porous asphalt, pervious concrete, or permeable pavers) can be self-retaining when constructed with a gravel base course four or more inches deep below any underdrain discharge elevation.

If all answers indicate "Yes," DMAs may be categorized as Type 'B', proceed to identify Type 'C' Areas Draining to Self-Retaining Areas.

Type 'C' Areas Draining to Self-Retaining Areas: Runoff from impervious or partially pervious areas can be managed by routing it to Self-Retaining Areas consistent with the LID Principle discussed in SMR WQMP Section 3.2.5 for 'Dispersing Runoff to Adjacent Pervious Areas'.
Indicate if the DMAs meet the following criteria by answering "Yes" or "No".

☒ Yes ☐ No	The drainage from the tributary area must be directed to and dispersed within the Self-Retaining Area.
☒ Yes ☐ No	Area must be designed to retain the entire Design Storm runoff without

flowing offsite.

If all answers indicate "Yes," DMAs may be categorized as Type 'C'.

Complete Table C-3 and Table C-4 to identify Type 'B' Self-Retaining Areas and Type 'C' Areas Draining to Self-Retaining Areas.

Table C-3 Type 'B', Self-Retaining Areas

Self-Retaining Area				Type 'C' DMAs that are draining to the Self-Retaining Area		
DMA Name/ ID	Post-project surface type	Area (square feet) [A]	Storm Depth (inches) [B]	DMA Name / ID	[C] from Table C-4= [C]	Required Retention Depth (inches) [D] = $[B] + \frac{[B]\cdot[C]}{[A]}$

Table C-4 Type 'C', Areas that Drain to Self-Retaining Areas

DMA					Receiving Self-Retaining DMA		
DMA Name/ ID	Area (square feet) [A]	Post-project surface type	Runoff factor [B]	Product [C] = [A] x [B]	DMA name /ID	Area (square feet) [D]	Ratio [C]/[D]
BMP-E	6,068	IMP	.66	4005	BMP-6	617.5	6.5

<u>Note:</u> (See Section 3.3 of SMR WQMP) Ensure that partially pervious areas draining to a Self-Retaining area do not exceed the following ratio:

$$\left(\frac{2}{\boldsymbol{Impervious\ Fraction}}\right) : 1$$

(Tributary Area: Self-Retaining Area)

Step 3.C – Identify Type 'D' Areas Draining to BMPs

Areas draining to BMPs are those that could not be fully managed through LID Principles (DMA Types A through C) and will instead drain to an LID BMP and/or a Conventional Treatment BMP designed to manage water quality impacts from that area, and Hydromodification where necessary.

Complete Table C-5 to document which DMAs are classified as Areas Draining to BMPs

Table C-5 Type 'D', Areas Draining to BMPs

DMA Name or ID	BMP Name or ID Receiving Runoff from DMA
DMA A	BMP-1
DMA B	BMP-2
DMA C	BMP-3
DMA D	BMP-4
DMA G	BMP-5

Note: More than one DMA may drain to a single LID BMP; however, one DMA may not drain to more than one BMP.

Section D: Implement LID BMPs

The Regional MS4 Permit requires the use of LID BMPs to provide retention or treatment of the DCV and includes a BMP hierarchy which requires Full Retention BMPs (Priority 1) to be considered before Biofiltration BMPs (Priority 2) and Flow-Through Treatment BMPs and Alternative Compliance BMPs (Priority 3). LID BMP selection must be based on technical feasibility and should be considered early in the site planning and design process. Use this section to document the selection of LID BMPs for each DMA. Note that feasibility is based on the DMA scale and may vary between DMAs based on site conditions.

D.1 Full Infiltration Applicability

An assessment of the feasibility of utilizing full infiltration BMPs is required for all projects, *except where it can be shown that site design LID principals fully retain the DCV (i.e., all DMAs are Type A, B, or C), or where Harvest and Use BMPs fully retain the DCV. Check the following box if applicable:*

☐ Site design LID principals fully retain the DCV (i.e., all DMAs are Type A, B, or C), (Proceed to Section E).

If the above box remains unchecked, perform a site-specific evaluation of the feasibility of Infiltration BMPs using each of the applicable criteria identified in Chapter 2.3.3 of the SMR WQMP and complete the remainder of Section D.1.

Geotechnical Report

A Geotechnical Report or Phase I Environmental Site Assessment may be required by the Copermittee to confirm present and past site characteristics that may affect the use of Infiltration BMPs. In addition, the Copermittee, at their discretion, may not require a geotechnical report for small projects as described in Chapter 2 of the SMR WQMP. If a geotechnical report has been prepared, include it in Appendix 3. In addition, if a Phase I Environmental Site Assessment has been prepared, include it in Appendix 4.

Infiltration Feasibility

Table D-1 below is meant to provide a simple means of assessing which DMAs on your site support Infiltration BMPs and is discussed in the SMR WQMP in Chapter 2.3.3. Check the appropriate box for each question and then list affected DMAs as applicable. If additional space is needed, add a row below the corresponding answer.

Table D-1 Infiltration Feasibility

Downstream Impacts (SMR WQMP Section 2.3.3.a)		
Does the project site…	**YES**	**NO**
…have any DMAs where infiltration would negatively impact downstream water rights or other Beneficial Uses[3]?		X
If Yes, list affected DMAs:		
Groundwater Protection (SMR WQMP Section 2.3.3.b)		
Does the project site…	**YES**	**NO**
…have any DMAs with industrial, and other land uses that pose a high threat to water quality, which cannot be treated by Bioretention BMPs? Or have DMAs with active industrial process areas?		X
If Yes, list affected DMAs:		
…have any DMAs with a seasonal high groundwater mark shallower than 10 feet?		X
If Yes, list affected DMAs:		
…have any DMAs located within 100 feet horizontally of a water supply well?		X
If Yes, list affected DMAs:		
…have any DMAs that would restrict BMP locations to within a 2:1 (horizontal: vertical) influence line extending from any septic leach line?		X
If Yes, list affected DMAs:		
…have any DMAs been evaluated by a licensed Geotechnical Engineer, Hydrogeologist, or Environmental Engineer, who has concluded that the soils do not have adequate physical and chemical characteristics for the protection of groundwater, and has treatment provided by amended media layers in Bioretention BMPs been considered in evaluating this factor?		X
If Yes, list affected DMAs:		
Public Safety and Offsite Improvements (SMR WQMP Section 2.3.3.c)		
Does the project site…	**YES**	**NO**
…have any areas identified by the geotechnical report as posing a public safety risk where infiltration of stormwater could have a negative impact?		X
If Yes, list affected DMAs:		
Infiltration Characteristics For LID BMPs (SMR WQMP Section 2.3.3.d)		
Does the project site…	**YES**	**NO**
…have factored infiltration rates of less than 0.8 inches / hour? (Note: on a case-by-case basis, the Local Jurisdiction may allow a factor of safety as low as 1.0 to support selection of full infiltration BMPs. Therefore, measured infiltration rates could be as low as 0.8 in/hr to support full infiltration. A higher factor of safety would be required for design in accordance with the LID BMP Deign Handbook).		X
If Yes, list affected DMAs:		
Cut/Fill Conditions (SMR WQMP Section 2.3.3.e)		
Does the project site…	**YES**	**NO**
…have significant cut and/or fill conditions that would preclude in-situ testing of infiltration rates at the final infiltration surface?		X
If Yes, list affected DMAs:		
Other Site-Specific Factors (SMR WQMP Section 2.3.3.f)		
Does the project site…	**YES**	**NO**
…have DMAs where the geotechnical investigation discovered other site-specific factors that would preclude effective and/or safe infiltration?		X
Describe here:		

If you answered "Yes" to any of the questions above for any DMA, Infiltration BMPs that rely solely on infiltration should not be used for those DMAs and you should proceed to the assessment for

[3] Such a condition must be substantiated by sufficient modeling to demonstrate an impact and would be subject to [Insert Jurisdiction] discretion. There is not a standardized method for assessing this criterion. Water rights evaluations should be site-specific.

Biofiltration BMPs below. Biofiltration BMPs that provide partial infiltration may still be feasible and should be assessed in Section D.2. Summarize concerns identified in the Geotechnical Report, if any, that resulted in a "YES" response above in the table below.

Table D-2 Geotechnical Concerns for Onsite Infiltration

Type of Geotechnical Concern	DMAs Feasible (By Name or ID)	DMAs Infeasible (By Name or ID)
Collapsible Soil		
Expansive Soil		
Slopes		
Liquefaction		
Other		

D.2 Biofiltration Applicability

This section should document the applicability of biofiltration BMPs for Type D DMAs that are not feasible for full infiltration BMPs. The key decisions to be documented in this section include:

1. Are biofiltration BMPs with partial infiltration feasible?
    a. Biofiltration BMPs must be designed to maximize incidental infiltration via a partial infiltration design unless it is demonstrated that this design is not feasible.
    b. These designs can be used at sites with low infiltration rates where other feasibility factors do not preclude incidental infiltration.

    Document summary in Table D-3.
2. If not, what are the factors that require the use of biofiltration with no infiltration? This may include:
    a. Geotechnical hazards
    b. Water rights issues
    c. Water balance issues
    d. Soil contamination or groundwater quality issues
    e. Very low infiltration rates (factored rates < 0.1 in/hr)
    f. Other factors, demonstrated to the acceptance of the local jurisdiction

    If this applies to any DMAs, then rationale must be documented in Table D-3.
3. Are biofiltration BMPs infeasible?
    a. If yes, then provide a site-specific analysis demonstrating the technical infeasibility of all LID BMPs has been performed and is included in Appendix 5. If you plan to submit an analysis demonstrating the technical infeasibility of LID BMPs, request a pre-submittal meeting with the Copermittee with jurisdiction over the Project site to discuss this option. Proceed to Section F to document your alternative compliance measures.

Table D-3 Evaluation of Biofiltration BMP Feasibility

DMA ID	Is Partial/ Incidental Infiltration Allowable? (Y/N)	Basis for Infeasibility of Partial Infiltration (provide summary and include supporting basis if partial infiltration not feasible)
DMA A		
DMA B		
DMA C		
DMA D		
DMA E		

Infiltration testing will be conducted at final engineering due to finished grade of site being 30ft below current existing surface.

Proprietary Biofiltration BMP Approval Criteria

If the project will use proprietary BMPs as biofiltration BMPs, then this section is completed to document that the proprietary BMPs are selected in accordance with Section 2.3.7 of the SMR WQMP. Proprietary Biofiltration BMPs must meet both of the following approval criteria:

1. Approval Criteria for All Proprietary BMPs, and
2. Acceptance Criteria for Proprietary Biofiltration BMPs.

When the use of proprietary biofiltration BMPs is proposed to meet the Pollutant Control performance standards, use Table D-4 to document that appropriate approval criteria have been met for the proposed BMPs. Add additional rows to document approval criteria are met for each type of BMP proposed.

Table D-4 Proprietary BMP Approval Requirement Summary

Proposed Proprietary Biofiltration BMP	Approval Criteria	Notes/Comments
Insert BMP Name and Manufacturer Here	☐ Proposed BMP has an active TAPE GULD Certification for the project pollutants of concern[4] or equivalent 3rd party demonstrated performance.	Insert text here
	☐ The BMP is used in a manner consistent with manufacturer guidelines and conditions of its third-party certification.	Insert text here
	☐ The BMP includes biological features including vegetation supported by engineered or other growing media.	Describe features here.
	☐ The BMP is designed to maximize infiltration, or supplemental infiltration is provided to achieve retention equivalent to Biofiltration with Partial Infiltration BMPs if factored infiltration rate is between 0.1 and 0.8 inches/hour.	Describe supplemental retention practices if applicable.
	☐ The BMP is sized using one of two Biofiltration LID sizing options in Section 2.3.2 of the SRM WQMP.	List sizing method used, resulting size (i.e. volume or flow), and provided size (for proposed unit)

[4] Use Table F-1 and F-2 to identify and document the pollutants of concern and include these tables in Appendix 5.

D.3 Feasibility Assessment Summaries

From the Infiltration, Biofiltration with Partial Infiltration and Biofiltration with No Infiltration Sections above, complete Table D-5 below to summarize which LID BMPs are technically feasible, and which are not, based upon the established hierarchy.

Table D-5 LID Prioritization Summary Matrix

DMA Name/ID	LID BMP Hierarchy			No LID (Alternative Compliance)
	1. Infiltration	2. Biofiltration with Partial Infiltration	3. Biofiltration with No Infiltration	
1	☐	☐	☒	☐
2	☐	☐	☒	☐
3	☐	☐	☒	☐
4	☐	☐	☒	☐
5	☐	☐	☒	☐

For those DMAs where LID BMPs are not feasible, provide a narrative in Table D-6 below summarizing why they are not feasible, include your technical infeasibility criteria in Appendix 5, and proceed to Section F below to document Alternative Compliance measures for those DMAs. Recall that each proposed DMA must pass through the LID BMP hierarchy before alternative compliance measures may be considered.

This is based on the clarification letter titled "San Diego Water Board's Expectations of Documentation to Support a Determination of Priority Development Project Infiltration Infeasibility" (April 28, 2017, Via email from San Diego Regional Water Quality Control Board to San Diego County Municipal Storm Water Copermittees[5]).

Table D-6 Summary of Infeasibility Documentation

Question	Narrative Summary (include reference to applicable appendix/attachment/report, as applicable)
a) When in the entitlement process did a geotechnical engineer analyze the site for infiltration feasibility?	Infiltration testing will be conducted at final engineering
b) When in the entitlement process were other investigations conducted (e.g., groundwater quality, water rights) to evaluate infiltration feasibility?	No Test at current time
c) What was the scope and results of testing, if conducted, or rationale for why testing was not needed to reach findings?	No Test at current time
d) What public health and safety requirements affected infiltration locations?	No Test at current time
e) What were the conclusions and recommendations of the geotechnical engineer	No Test at current time

[5] http://www.projectcleanwater.org/download/pdp-infiltration-infeasibility/

	and/or other professional responsible for other investigations?	
f)	What was the history of design discussions between the permittee and applicant for the proposed project, resulting in the final design determination related locations feasible for infiltration?	No Test at current time
g)	What site design alternatives were considered to achieve infiltration or partial infiltration on site?	No Test at current time
h)	What physical impairments (i.e., fire road egress, public safety considerations, utilities) and public safety concerns influenced site layout and infiltration feasibility?	No Test at current time
i)	What LID Principles (site design BMPs) were included in the project site design?	

D.4 LID BMP Sizing

Each LID BMP must be designed to ensure that the DCV will be captured by the selected BMPs with no discharge to the storm drain or surface waters during the DCV size storm. Infiltration BMPs must at minimum be sized to capture the DCV to achieve pollutant control requirements.

Biofiltration BMPs must at a minimum be sized to:

- Treat 1.5 times the DCV not reliably retained on site using a volume-base or flow-based sizing method, or
- Include static storage volume, including pore spaces and pre-filter detention volume, at least 0.75 times the portion of the DCV not reliably retained on site.

First, calculate the DCV for each LID BMP using the V_{BMP} worksheet in Appendix F of the LID BMP Design Handbook. Second, design the LID BMP to meet the required V_{BMP} using the methods included in Section 3 of the LID BMP Design Handbook. Utilize the worksheets found in the LID BMP Design Handbook or consult with the Copermittee to assist you in correctly sizing your LID BMPs. Use Table D-7 below to document the DCV each LID BMP. Provide the completed design procedure sheets for each LID BMP in Appendix 6. You may add additional rows to the table below as needed.

Table D-7 DCV Calculations for LID BMPs

DMA Type/ID	DMA (square feet)	Post-Project Surface Type	Effective Impervious Fraction, I_f	DMA Runoff Factor	DMA Areas x Runoff Factor	*Enter BMP Name / Identifier Here* *BMP-1*		
	[A]		[B]	[C]	[A] x [C]			
A	*179,743*	*Mixed*	*0.85*	*0.66*	*118,156*	*Design Storm Depth (in)*	*DCV, V_{BMP} (cubic feet)*	*Proposed Volume on Plans (cubic feet)*
	$A_T = \Sigma[A]$				118,156	0.61	5,991	7,492

[B], [C] is obtained as described in Section 2.6.1.b of the SMR WQMP
[E] is obtained from Exhibit A in the SMR WQMP
[G] is obtained from a design procedure sheet, such as in LID BMP Design Handbook and placed in Appendix 6.

DMA Type/ID	DMA (square feet)	Post-Project Surface Type	Effective Impervious Fraction, I_f	DMA Runoff Factor	DMA Areas x Runoff Factor	*Enter BMP Name / Identifier Here* *BMP-2*		
	[A]		[B]	[C]	[A] x [C]			
B	*37,522*	*Mixed*	*0.85*	*0.66*	*24,665*	*Design Storm Depth (in)*	*DCV, V_{BMP} (cubic feet)*	*Proposed Volume on Plans (cubic feet)*
	$A_T = \Sigma[A]$				24,665	0.61	1,251	5,676

DMA Type/ID	DMA (square feet)	Post-Project Surface Type	Effective Impervious Fraction, I_f	DMA Runoff Factor	DMA Areas x Runoff Factor	*Enter BMP Name / Identifier Here* *BMP-3*		
	[A]		[B]	[C]	[A] x [C]			
C	*9,024*	*Mixed*	*0.85*	*0.66*	*5,932*	*Design Storm Depth (in)*	*DCV, V_{BMP} (cubic feet)*	*Proposed Volume on Plans (cubic feet)*
	$A_T = \Sigma[A]$				5,932	0.61	302	435

DMA Type/ID	DMA (square feet)	Post-Project Surface Type	Effective Impervious Fraction, I_f	DMA Runoff Factor	DMA Areas x Runoff Factor	*Enter BMP Name / Identifier Here* *BMP-4*		
	[A]		[B]	[C]	[A] x [C]			
D	*35,499*	*Mixed*	*0.85*	*0.66*	*23,336*	*Design Storm Depth (in)*	*DCV, V_{BMP} (cubic feet)*	*Proposed Volume on Plans (cubic feet)*
	$A_T = \Sigma[A]$				23,336	0.61	1,186	1,328

DMA Type/ID	DMA (square feet)	Post-Project Surface Type	Effective Impervious Fraction, I_f	DMA Runoff Factor	DMA Areas x Runoff Factor	*Enter BMP Name / Identifier Here* *BMP-5*		
	[A]		[B]	[C]	[A] x [C]			
G	*9,474*	*Mixed*	*0.85*	*0.66*	*6,228*	*Design Storm Depth (in)*	*DCV, V_{BMP} (cubic feet)*	*Proposed Volume on Plans (cubic feet)*
	$A_T = \Sigma[A]$				5,890	0.61	317	332

Complete Table D-8 below to document the Design Capture Volume and the Proposed Volume for each LID BMP. You can add rows to the table as needed. Alternatively, the Santa Margarita Hydrology Model (SMRHM) can be used to size LID BMPs to address the DCV and, if applicable, to size Hydrologic Control BMPs to meet the Hydrologic Performance Standard described in the SMR WQMP, as identified in Section E.

Table D-8 LID BMP Sizing

BMP Name / ID	DMA No.	BMP Type / Description	Design Capture Volume (ft^3)	Proposed Volume (ft^3)
1	A	Biofiltration	6,006	7,492
2	B	Biofiltration	1,254	5,676
3	C	Biofiltration	302	435
4	D	Biofiltration	1,186	1,328
5	G	Biofiltration	317	332

If bioretention will include a capped underdrain, then include sizing calculations demonstrating that the BMP will meet infiltration sizing requirements with the underdrain capped and also meet biofiltration sizing requirements if the underdrain is uncapped.

Section E: Implement Hydrologic Control BMPs and Sediment Supply BMPs

If a completed Table 1.2 demonstrates that the project is exempt from Hydromodification Performance Standards, specify N/A and proceed to Section G.

☐ N/A Project is Exempt from Hydromodification Performance Standards.

If a PDP is not exempt from hydromodification requirements than the PDP must satisfy the requirements of the performance standards for hydrologic control BMPs and Sediment Supply BMPs. The PDP may choose to satisfy hydrologic control requirements using onsite or offsite BMPs (i.e. Alternative Compliance). Sediment supply requirements cannot be met via alternative compliance. If N/A is not selected above, select one of the two options below and complete the applicable sections.

☒ Project is Not Hydromodification Exempt and chooses to implement Hydrologic Control and Sediment Supply BMPs Onsite (complete Section E).

☐ Project is Not Hydromodification Exempt and chooses to implement Hydrologic Control Requirements using Alternative Compliance (complete Section F). Selection of this option must be approved by the Copermittee.

E.1 Hydrologic Control BMP Selection

Capture of the DCV and achievement of the Hydrologic Performance Standard may be met by combined and/or separate structural BMPs. The user should consider the full suite of Hydrologic Control BMPs to manage runoff from the post-development condition and meet the Hydrologic Performance Standard identified in this section.

The Hydrologic Performance Standard consists of matching or reducing the flow duration curve of post-development conditions to that of pre-existing, naturally occurring conditions, for the range of geomorphically significant flows (10% of the 2-year runoff event up to the 10-year runoff event). Select each of the hydrologic control BMP types that are applied to meet the above performance standard on the site.

☒ LID principles as defined in Section 3.2 of the SMR WQMP.

☒ Structural LID BMPs that may be modified or enlarged, if necessary, beyond the DCV.

☒ Structural Hydrologic Control BMPs that are distinct from the LID BMPs above. The LID BMP Design Handbook provides information not only on Hydrologic Control BMP design, but also on BMP design to meet the combined LID requirement and Hydrologic Performance Standard. The Handbook specifies the type of BMPs that can be used to meet the Hydrologic Performance Standard.

E.2 Hydrologic Control BMP Sizing

Hydrologic Control BMPs must be designed to ensure that the flow duration curve of the post-development DMA will not exceed that of the pre-existing, naturally occurring, DMA for the range of geomorphically significant flows. Using SMRHM, (or another acceptable continuous simulation model if approved by the Copermittee) the applicant shall demonstrate that the performance of the Hydrologic Control BMPs complies with the Hydrologic Performance Standard. Complete Table E-1 below and identify, for each DMA, the type of Hydrologic Control BMP, if the SMRHM model confirmed the management (Identified as "passed" in SMRHM), the total volume capacity of the Hydrologic Control BMP, the Hydrologic Control BMP footprint at top floor elevation, and the drawdown time of the Hydrologic Control BMP. SMRHM summary reports should be documented in Appendix 7. Refer to the SMRHM Guidance Document for additional information on SMRHM. You can add rows to the table as needed.

Table E-1 Hydrologic Control BMP Sizing

BMP Name / ID	DMA No.	BMP Type / Description	SMRHM Passed	BMP Volume (ac-ft)	BMP Footprint (ac)	Drawdown time (hr)
1	A	Biofiltration	☒	0.1563	0.1564	22.5
2	B	Biofiltration	☒	0.0875	0.1167	22.2
3	C	Biofiltration	☒	0.0136	0.0091	1.1
4	D	Biofiltration	☒	0.0416	0.0277	3.4
5	G	Biofiltration	☒	0.0104	.0069	0.8

If a bioretention BMP with capped underdrain is used and hydromodification requirements apply, then sizing calculations must demonstrate that the BMP meets flow duration control criteria with the underdrain capped and uncapped. Both calculations must be included.

E.3 Implement Sediment Supply BMPs

The sediment supply performance standard applies to PDPs for which hydromodification applied that have the potential to impact Potential Critical Coarse Sediment Yield Areas. Refer to Exhibit G of the WQMP to determine if there are onsite Potential Critical Coarse Sediment Yield Areas or Potential Sediment Source Areas. Select one of the two options below and include the Potential Critical Coarse Sediment Yield Area Exhibit showing your project location in Appendix 7.

☒ There are no mapped Potential Critical Coarse Sediment Yield Areas or Potential Sediment Source Areas on the site. The Sediment Supply Performance Standard is met with no further action.

☐ There are mapped Potential Critical Coarse Sediment Yield Areas or Potential Sediment Source Areas on the site, the Sediment Supply Performance Standard will be met through Option 1 or Option 2 below.

The applicant may refer to Section 3.6.4 of the SMR WQMP for a description of the methodology to meet the Sediment Supply Performance Standard. Select the applicable compliance pathway and

complete the appropriate sections to demonstrate compliance with the Sediment Supply Performance Standard if the second box is selected above:

☐ Avoid impacts related to any PDP activities to Potential Critical Coarse Sediment Yield Areas. Proceed to Section E.3.1.

☐ Complete a Site-Specific Critical Coarse Sediment Analysis. Proceed to Section E.3.2.

E.3.1 Option 1: Avoid Potential Critical Coarse Sediment Yield Areas and Potential Sediment Source Areas

The simplest approach for complying with the Sediment Supply Performance Standard is to avoid impacts to areas identified as Potential Critical Coarse Sediment Yield Areas or Potential Sediment Supply Areas. If a portion of PDP is identified as a Potential Critical Coarse Sediment Yield Area or a Potential Sediment Source Area, that PDP may still achieve compliance with the Sediment Supply Performance Standards if Potential Critical Coarse Sediment Yield Areas and Potential Sediment Supply Areas are avoided, i.e. areas are not developed and thereby delivery of Critical Coarse Sediment to the receiving waters is not impeded by site developments.

Provide a narrative describing how the PDP has avoided impacts to Potential Critical Coarse Sediment Yield Areas and/or Potential Sediment Source Areas below.

No Potential Critical Coarse sediment Yeild areas identified...see Exhibit included.

If it is not feasible to avoid these areas, proceed to Option 2 to complete a Site-Specific Critical Coarse Sediment Analysis.

E.3.2 Option 2: Site-Specific Critical Coarse Sediment Analysis

Perform a stepwise assessment to ensure the maintenance of the pre-project source(s) of Critical Coarse Sediment (i.e., Bed Sediment Supply):

1. Determine whether the site or a portion of the site is a Significant Source of Bed Sediment Supply to the Receiving Channel (i.e., an actual verified Critical Coarse Sediment Yield Area);
2. Avoid areas identified as actual verified Critical Coarse Sediment Yield Areas in the PDP design and maintain pathways for discharge of Bed Sediment Supply from these areas to receiving waters.

Step 1: Identify if the site is an actual verified Critical Coarse Sediment Yield Area supplying Bed Sediment Supply to the receiving channel

☐ **Step 1.A** – Is the Bed Sediment of onsite streams similar to that of receiving streams?

Rate the similarity: ☐ High
☐ Medium
☐ Low

Results from the geotechnical and sieve analysis to be performed both onsite and in the receiving channel should be documented in Appendix 7. Of particular interest, the results of the sieve

analysis, the soil erodibility factor, a description of the topographic relief of the project area, and the lithology of onsite soils should be reported in Appendix 7.

☐ **Step 1.B** – Are onsite streams capable of delivering Bed Sediment Supply from the site, if any, to the receiving channel?

Rate the potential:
☐ High
☐ Medium
☐ Low

Results from the analyses of the sediment delivery potential to the receiving channel should be documented in Appendix 7 and identify, at a minimum, the Sediment Source, the distance to the receiving channel, the onsite channel density, the project watershed area, the slope, length, land use, and rainfall intensity.

☐ **Step 1.C** – Will the receiving channel adversely respond to a change in Bed Sediment Load?

Rate the need for bed sediment supply:
☐ High
☐ Medium
☐ Low

Results from the in-stream analysis to be performed both onsite should be documented in Appendix 7. The analysis should, at a minimum, quantify the bank stability and the degree of incision, provide a gradation of the Bed Sediment within the receiving channel, and identify if the channel is sediment supply-limited.

☐ **Step 1.D** – Summary of Step 1

Summarize in Table E.3 the findings of Step 1 and associate a score (in parenthesis) to each step. The sum of the three individual scores determines if a stream is a significant contributor to the receiving stream.

- Sum is equal to or greater than eight - Site is a significant source of sediment bed material – all on-site streams must be preserved or by-passed within the site plan. The applicant shall proceed to Step 2 for all onsite streams.
- Sum is greater than five but lower than eight. Site is a source of sediment bed material – some of the on-site streams must be preserved (with identified streams noted). The applicant shall proceed to Step 2 for the identified streams only.
- Sum is equal to or lower than five. Site is not a significant source of sediment bed material. The applicant may advance to Section F.

Table E-2 Triad Assessment Summary

Step	Rating			Total Score
1.A	☐ High (3)	☐ Medium (2)	☐ Low (1)	
1.B	☐ High (3)	☐ Medium (2)	☐ Low (1)	
1.C	☐ High (3)	☐ Medium (2)	☐ Low (1)	
Significant Source Rating of Bed Sediment to the receiving channel(s)				

Step 2: Avoid Development of Critical Coarse Sediment Yield Areas, Potential Sediment Sources Areas, and Preserve Pathways for Transport of Bed Sediment Supply to Receiving Waters

Onsite streams identified as a actual verified Critical Coarse Sediment Yield Areas should be avoided in the site design and transport pathways for Critical Coarse Sediment should be preserved

Check those that apply:

☐ The site design does avoid all onsite channels identified as actual verified Critical Coarse Sediment Yield Areas

AND

☐ The drainage design bypasses flow and sediment from onsite upstream drainages identified as actual verified Critical Coarse Sediment Yield Areas to maintain Critical Coarse Sediment supply to receiving waters

(If both are yes, the applicant may disregard subsequent steps of Section E.3 and directly advance directly to Section G).

- *Or* -

☐ The site design **does NOT avoid** all onsite channels identified as actual verified Critical Coarse Sediment Yield Areas

OR

☐ The project impacts transport pathways of Critical Coarse Sediment from onsite upstream drainages.

(If either of these are the case, the applicant may proceed with the subsequent steps of Section E.3).

Provide in Appendix 7 a site map that identifies all onsite channels and highlights those onsite channels that were identified as a Significant Source of Bed Sediment. The site map shall demonstrate, if feasible, that the site design avoids those onsite channels identified as a Significant Source of Bed Sediment. In addition, the applicant shall describe the characteristics of each onsite channel identified as a Significant Source of Bed Sediment. If the design plan cannot avoid the onsite channels, please provide a rationale for each channel individually.

The site map shall demonstrate that the drainage design bypasses those onsite channels that supply Critical Coarse Sediment to the receiving channel(s). In addition, the applicant shall describe the characteristics of each onsite channel identified as an actual verified Critical Coarse Sediment Yield Area.

Identified Channel #1 - Insert narrative description here

Identified Channel #2 - Insert narrative description here

Identified Channel #3 - Insert narrative description here

E.3.3 Sediment Supply BMPs to Result in No Net Impact to Downstream Receiving Waters

If impacts to Critical Coarse Sediment Yield Areas cannot be avoided, sediment supply BMPs must be implemented such there is no net impact to receiving waters. Sediment supply BMPs may consist of approaches that permit flux of bed sediment supply from Critical Coarse Sediment Yield Areas within the project boundary. This approach is subject to acceptance by the [Insert Jurisdiction]. It may require extensive documentation and analysis by qualified professionals to support this demonstration.

Appendix H of the San Diego Model BMP Design Manual provides additional information on site-specific investigation of Critical Coarse Sediment Supply areas.

http://www.projectcleanwater.org/download/2018-model-bmp-design-manual/

If applicable, insert narrative description here

Documentation of sediment supply BMPs should be detailed in Appendix 7.

Section F: Alternative Compliance

Alternative Compliance may be used to achieve compliance with pollutant control and/or hydromodification requirements for a given PDP. Alternative Compliance may be used under two scenarios, check the applicable box if the PDP is proposing to use Alternative Compliance to satisfy all or a portion of the Pollutant Control and/or Hydrologic Control requirements (but not sediment supply requirements)

☐ If it is not feasible to fully implement Infiltration or Biofiltration BMPs at a PDP site, Flow-Through Treatment Control BMPs may be used to treat pollutants contained in the portion of DCV not reliably retained on site and Alternative Compliance measures must also be implemented to mitigate for those pollutants in the DCV that are not retained or removed on site prior to discharging to a receiving water.

☐ Alternative Compliance is selected to comply with either pollutant control or hydromodification flow control requirements even if complying with these requirements is potentially feasible on-site. If such voluntary Alternative Compliance is implemented, Flow-Through Treatment Control BMPs must still be used to treat those pollutants in the portion of the DCV not reliably retained on site prior to discharging to a receiving water.

Refer to Section 2.7 of the SMR WQMP and consult the Local Jurisdiction for currently available Alternative Compliance pathways. Coordinate with the Copermittee if electing to participate in Alternative Compliance and complete the sections below to document implementation of the Flow-Through BMP component of the program.

F.1 Identify Pollutants of Concern

The purpose of this section is to help you appropriately plan for mitigating your Pollutants of Concern in lieu of implementing LID BMPs and to document compliance and.

Utilize Table A-1 from Section A, which noted your project's Receiving Waters, to identify impairments for Receiving Waters (including downstream receiving waters) by completing Table F-1. Table F-1 includes the watersheds identified as impaired in the Approved 2010 303(d) list; check box corresponding with the PDP's receiving water. The most recent 303(d) lists are available from the State Water Resources Control Board website: https://www.waterboards.ca.gov/water_issues/programs/tmdl/integrated2010.shtml).https://www.waterboards.ca.gov/water_issues/programs/tmdl/integrated2010.shtml.

Table F-1 Summary of Approved 2010 303(d) listed waterbodies and associated pollutants of concern for the Riverside County SMR Region and downstream waterbodies.

	Water Body	Nutrients[1]	Metals[2]	Toxicity	Bacteria and Pathogens	Pesticides and Herbicides	Sulfate	Total Dissolved Solids
☐	De Luz Creek	X	X				X	
☐	Long Canyon Creek		X		X	X		
☒	Murrieta Creek	X	X	X		X		
☐	Redhawk Channel	X	X		X	X		X
☐	Santa Gertudis Creek	X	X		X	X		
☐	Santa Margarita Estuary	X						
☒	Santa Margarita River (Lower)	X			X			
☒	Santa Margarita River (Upper)	X		X				
☐	Temecula Creek	X	X	X		X		X
☐	Warm Springs Creek	X	X		X	X		

[1] Nutrients include nitrogen, phosphorus and eutrophic conditions caused by excess nutrients.

[2] Metals includes copper, iron, and manganese.

Use Table F-2 to identify the pollutants identified with the project site. Indicate the applicable PDP Categories and/or Project Features by checking the boxes that apply. If the identified General Pollutant Categories are the same as those listed for your Receiving Waters, then these will be your Pollutants of Concern; check the appropriate box or boxes in the last row.

Table F-2 Potential Pollutants by Land Use Type

Priority Development Project Categories and/or Project Features (check those that apply)		General Pollutant Categories									
		Bacterial Indicators	Metals	Nutrients	Pesticides	Toxic Organic Compounds	Sediments	Trash & Debris	Oil & Grease	Total Dissolved Solids	Sulfate
☐	Detached Residential Development	P	N	P	P	N	P	P	P	N	N
☐	Attached Residential Development	P	N	P	P	N	P	P	P[(2)]	N	N
☒	Commercial/Industrial Development	P[(3)]	P[(7)]	P[(1)]	P[(1)]	P	P[(1)]	P	P	N	N
☒	Automotive Repair Shops	N	P	N	N	P[(4, 5)]	N	P	P	N	N
☒	Restaurants (>5,000 ft^2)	P	N	N	P[(1)]	N	N	P	P	N	N
☐	Hillside Development (>5,000 ft^2)	P	N	P	P	N	P	P	P	N	N
☒	Parking Lots (>5,000 ft^2)	P[(6)]	P[(7)]	P[(1)]	P[(1)]	P[(4)]	P	P	P	N	N
☐	Streets, Highways, and Freeways	P[(6)]	P[(7)]	P[(1)]	P[(1)]	P[(4)]	P	P	P	N	N
☐	Retail Gasoline Outlets	N	P[(7)]	N	N	P[(4)]	N	P	P	N	N
Project Priority Pollutant(s) of Concern		☒	☐	☒	☒	☒	☒	☒	☒	☐	☐

P = Potential

N = Not Potential

(1) A potential Pollutant if non-native landscaping exists or is proposed onsite; otherwise not expected

(2) A potential Pollutant if the project includes uncovered parking areas; otherwise not expected

(3) A potential Pollutant is land use involving animal waste products; otherwise not expected

(4) Including petroleum hydrocarbons

(5) Including solvents

(6) Bacterial indicators are routinely detected in pavement runoff

(7) A potential source of metals, primarily copper and zinc. Iron, magnesium, and aluminum are commonly found in the environment and are commonly associated with soils, but are not primarily of anthropogenic stormwater origin in the municipal environment.

F.2 Treatment Control BMP Selection

Treatment Control BMPs typically provide proprietary treatment mechanisms to treat potential Pollutants in runoff, but do not sustain significant biological processes. Treatment Control BMPs must be selected to address the Project Priority Pollutants of Concern (identified above) and meet the acceptance criteria described in Section 2.3.7 of the SMR WQMP. Documentation of acceptance criteria must be included in Appendix 6. In addition, ensure that proposed Treatment Control BMPs are properly identified on the WQMP Site Plan in Appendix 1.

Table F-3 Treatment Control BMP Selection

Selected Treatment Control BMP Name or ID[1]	Priority Pollutant(s) of Concern to Mitigate[2]	Removal Efficiency Percentage[3]
BMP-1	Bacterial, Metals, Organic, Sediment, trash debris and oil & grease	>80%
BMP-2	Bacterial, Metals, Organic, Sediment, trash debris and oil & grease	>80%
BMP-3	Bacterial, Metals, Organic, Sediment, trash debris and oil & grease	>80%
BMP-4	Bacterial, Metals, Organic, Sediment, trash debris and oil & grease	>80%
BMP-5	Bacterial, Metals, Organic, Sediment, trash debris and oil & grease	>80%

[1] Treatment Control BMPs must not be constructed within Receiving Waters. In addition, a proposed Treatment Control BMP may be listed more than once if they possess more than one qualifying pollutant removal efficiency.
[2] Cross Reference Table E.1 above to populate this column.
[3] As documented in a Copermittee Approved Study and provided in Appendix 6.

F.3 Sizing Criteria

Utilize Table F-4 below to appropriately size flow-through BMPs to the DCV, or Design Flow Rate, as applicable. Please reference Chapter 3.5.1 of the SMR WQMP for further information.

Table F-4 Treatment Control BMP Sizing

DMA Type/ID	DMA Area (square feet)	Post-Project Surface Type	Effective Impervious Fraction, I_f	DMA Runoff Factor	DMA Areas x Runoff Factor	*Enter BMP Name / Identifier Here*	
	[A]		[B]	[C]	[A] x [C]		
						Design Storm (in)	*Design Flow Rate (cfs)*
	A_T = Σ[A]				Σ= [D]	[E]	$[F] = \frac{[D]x[E]}{[G]}$

[B], [C] is obtained as described in Section 2.6.1.b from the SMR WQMP
[E] either 0.2 inches or 2 times the 85th percentile hourly rainfall intensity
[G] = 43,560,.

F.4 Hydrologic Performance Standard – Alternative Compliance Approach

Alternative compliance options are only available if the governing Copermittee has acknowledged the infeasibility of onsite Hydrologic Control BMPs and approved an alternative compliance approach. See Section 3.5 and 3.6 of the SMR WQMP.

Select the pursued alternative and describe the specifics of the alternative:

☐ Offsite Hydrologic Control Management within the same channel system

Insert narrative description here

☐ In-Stream Restoration Project

Insert narrative description here

For Offsite Hydrologic Control BMP Option

Each Hydrologic Control BMP must be designed to ensure that the flow duration curve of the post-development DMA will not exceed that of the pre-existing, naturally occurring, DMA by more than ten percent over a one-year period. Using SMRHM, the applicant shall demonstrate that the performance of each designed Hydrologic Control BMP is equivalent with the Hydrologic Performance Standard for onsite conditions. Complete Table F-5 below and identify, for each Hydrologic Control BMP, the equivalent DMA the Hydrologic Control BMP mitigates, that the SMRHM model passed, the total volume capacity of the BMP, the BMP footprint at top floor elevation, and the drawdown time of the BMP. SMRHM summary reports for the alternative approach should be documented in Appendix 7. Refer to the SMRHM Guidance Document for additional information on SMRHM. You can add rows to the table as needed.

Table F-5 Offsite Hydrologic Control BMP Sizing

BMP Name / Type	Equivalent DMA (ac)	SMRHM Passed	BMP Volume (ac-ft)	BMP Footprint (ac)	Drawdown time (hr)
		☐			
		☐			
		☐			
		☐			

For Instream Restoration Option

Attach to Appendix 7 the technical report detailing the condition of the receiving channel subject to the proposed hydrologic and sediment regimes. Provide the full design plans for the in-stream restoration project that have been approved by the Copermittee. Utilize the San Diego Regional Water Quality Equivalency Guidance Document.

Section G: Implement Trash Capture BMPs

The Local Jurisdiction may require full trash capture BMPs to be installed as part of the project. Consult with the Local Jurisdiction to determine applicability.

Trash Capture BMPs may be applicable to Type 'D' DMAs, as defined in Section 2.3.4 of the SMR WQMP. Trash Capture BMPs are designed to treat Q_{TRASH}, the runoff flow rate generated during the 1-year 1-hour precipitation depth. Utilize Table G-1 to size Trash Capture BMP. Refer to Table G-2 to determine the Trash Capture Design Storm Intensity (E).

Table G-1 Sizing Trash Capture BMPs

DMA Type/ID	DMA Area (square feet)	Post-Project Surface Type	Effective Impervious Fraction, I_f	DMA Runoff Factor	DMA Areas x Runoff Factor	*Enter BMP Name / Identifier Here*	
	[A]		[B]	[C]	[A] x [C]	*Trash Capture Design Storm Intensity (in)*	*Trash Capture Design Flow Rate (cubic feet or cfs)*
	$A_T = \Sigma[A]$				$\Sigma = [D]$	[E]	$[F] = \frac{[D]x[E]}{[G]}$

[B], [C] is obtained as described in Section 2.6.1.b from the SMR WQMP
[G] = 43,560

Table G-2 Approximate precipitation depth/intensity values for calculation of the Trash Capture Design Storm

City	1-year 1-hour Precipitation Depth/Intensity (inches/hr)
Murrieta	0.47
Temecula	0.50
Wildomar	0.37

Use Table G-3 to summarize and document the selection and sizing of Trash Capture BMPs.

Table G-3 Trash Capture BMPs

BMP Name / ID	DMA No(s)	BMP Type / Description	Required Trash Capture Flowrate (cfs)	Provided Trash Capture Flowrate (cfs)

Section H: Source Control BMPs

Source Control BMPs include permanent, structural features that may be required in your Project plans, such as roofs over and berms around trash and recycling areas, and Operational BMPs, such as regular sweeping and "housekeeping," that must be implemented by the site's occupant or user. The Maximum Extent Practicable (MEP) standard typically requires both types of BMPs. In general, Operational Source Control BMPs cannot be substituted for a feasible and effective Structural Source Control BMP. Complete checklist below to determine applicable Source Control BMPs for your site.

Project-Specific WQMP Source Control BMP Checklist

All development projects must implement Source Control BMPs. Source Control BMPs are used to minimize pollutants that may discharge to the MS4. Refer to Chapter 3 (Section 3.8) of the SMR WQMP for additional information. Complete Steps 1 and 2 below to identify Source Control BMPs for the project site.

Step 1: Identify Pollutant Sources

Review project site plans and identify the applicable pollutant sources. "Yes" indicates that the pollutant source is applicable to project site. "No" indicates that the pollutant source is not applicable to project site.

☒ Yes ☐ No	Storm Drain Inlets		☐ Yes ☒ No	Outdoor storage areas	
☐ Yes ☒ No	Floor Drains		☐ Yes ☒ No	Material storage areas	
☐ Yes ☒ No	Sump Pumps		☐ Yes ☒ No	Fueling areas	
☐ Yes ☒ No	Pest Control/Herbicide Application		☐ Yes ☒ No	Loading Docks	
☒ Yes ☐ No	Food Service Areas		☐ Yes ☒ No	Fire Sprinkler Test/Maintenance water	
☒ Yes ☐ No	Trash Storage Areas		☒ Yes ☐ No	Plazas, Sidewalks and Parking Lots	
☐ Yes ☒ No	Industrial Processes		☐ Yes ☒ No	Pools, Spas, Fountains and other water features	
☐ Yes ☒ No	Vehicle and Equipment Cleaning and Maintenance/Repair Areas				

Step 2: Required Source Control BMPs

List each Pollutant source identified above in column 1 and fill in the corresponding Structural Source Control BMPs and Operational Control BMPs by referring to the Stormwater Pollutant Sources/Source Control Checklist included in Appendix 8. The resulting list of structural and operational source control BMPs must be implemented as long as the associated sources are present on the project site. Add additional rows as needed.

Pollutant Source	Structural Source Control BMP	Operational Source Control BMP
Trash and debris	Trash Storage Area	Insert text here
Insert text here	Insert text here	Insert text here
Insert text here	Insert text here	Insert text here
Insert text here	Insert text here	Insert text here
Insert text here	Insert text here	Insert text here
Insert text here	Insert text here	Insert text here
Insert text here	Insert text here	Insert text here
Insert text here	Insert text here	Insert text here

Section I: Coordinate Submittal with Other Site Plans

Populate Table I-1 below to assist the plan checker in an expeditious review of your project. During construction and at completion, [Insert Jurisdiction] inspectors will verify the installation of BMPs against the approved plans. The first two columns will contain information that was prepared in previous steps, while the last column will be populated with the corresponding plan sheets. This table is to be completed with the submittal of your final Project-Specific WQMP.

Table I-1 Construction Plan Cross-reference

BMP No. or ID	BMP Identifier and Description	Corresponding Plan Sheet(s)
BMP-1	Biofiltration	Insert text here
BMP-2	Biofiltration	Insert text here
BMP-3	Biofiltration	Insert text here
BMP-4	Biofiltration	Insert text here
BMP-5	Biofiltration	Insert text here

Note that the updated table — or Construction Plan WQMP Checklist — is **only a reference tool** to facilitate an easy comparison of the construction plans to your Project-Specific WQMP. The Copermittee with jurisdiction over the Project site can advise you regarding the process required to propose changes to the approved Project-Specific WQMP.

Use Table I-2 to identify other applicable permits that may impact design of the site. If yes is answered to any of the items below, the Copermittee may require proof of approval/coverage from those agencies as applicable including documentation of any associated requirements that may affect this Project-Specific WQMP.

Table I-2 Other Applicable Permits

Agency	Permit Required	
State Department of Fish and Game, 1602 Streambed Alteration Agreement	☐ Y	☒ N
State Water Resources Control Board, Clean Water Act Section 401 Water Quality Certification	☐ Y	☒ N
US Army Corps of Engineers, Clean Water Act Section 404 Permit	☐ Y	☒ N
US Fish and Wildlife, Endangered Species Act Section 7 Biological Opinion	☐ Y	☒ N
Statewide Construction General Permit Coverage	☒ Y	☐ N
Statewide Industrial General Permit Coverage	☐ Y	☒ N
Western Riverside MSHCP Consistency Approval (e.g., JPR, DBESP)	☐ Y	☒ N
Other *(please list in the space below as required)*	☐ Y	☐ N

Section J: Operation, Maintenance and Funding

The Copermittee with jurisdiction over the Project site will periodically verify that BMPs on your Project are maintained and continue to operate as designed. To make this possible, the Copermittee will require that you include in Appendix 9 of this Project-Specific WQMP:

1. A means to finance and implement maintenance of BMPs in perpetuity, including replacement cost.
2. Acceptance of responsibility for maintenance from the time the BMPs are constructed until responsibility for operation and maintenance is legally transferred. A warranty covering a period following construction may also be required.
3. An outline of general maintenance requirements for the Stormwater BMPs you have selected.
4. Figures delineating and designating pervious and impervious areas, location, and type of Stormwater BMP, and tables of pervious and impervious areas served by each facility. Geo-locating the BMPs using a coordinate system of latitude and longitude is recommended to help facilitate a future statewide database system.
5. A separate list and location of self-retaining areas or areas addressed by LID Principles that do not require specialized Operations and Maintenance or inspections but will require typical landscape maintenance as noted in Chapter 5, in the SMR WQMP. Include a brief description of typical landscape maintenance for these areas.

The Copermittee with jurisdiction over the Project site will also require that you prepare and submit a detailed BMP Operation and Maintenance Plan that sets forth a maintenance schedule for each of the BMPs built on your site. An agreement assigning responsibility for maintenance and providing for inspections and certification may also be required.

Details of these requirements and instructions for preparing a BMP Operation and Maintenance Plan are in Chapter 5 of the SMR WQMP.

Maintenance Mechanism: A maintenance agreement

Will the proposed BMPs be maintained by a Homeowners' Association (HOA) or Property Owners Association (POA)?

☐ Y ☒ N

Include your Operation and Maintenance Plan and Maintenance Mechanism in Appendix 9. Additionally, include all pertinent forms of educational materials for those personnel that will be maintaining the proposed BMPs within this Project-Specific WQMP in Appendix 10.

Section K: Acronyms, Abbreviations and Definitions

Regional MS4 Permit	Order No. R9-2013-0001 as amended by Order No. R9-2015-0001 and Order No. R9-2015-0100 an NPDES Permit issued by the San Diego Regional Water Quality Control Board.
Applicant	Public or private entity seeking the discretionary approval of new or replaced improvements from the Copermittee with jurisdiction over the project site. The Applicant has overall responsibility for the implementation and the approval of a Priority Development Project. The WQMP uses consistently the term "user" to refer to the applicant such as developer or project proponent. The WQMP employs also the designation "user" to identify the Registered Professional Civil Engineer responsible for submitting the Project-Specific WQMP, and designing the required BMPs.
Best Management Practice (BMP)	Defined in 40 CFR 122.2 as schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of waters of the United States. BMPs also include treatment requirements, operating procedures and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage. In the case of municipal storm water permits, BMPs are typically used in place of numeric effluent limits.
BMP Fact Sheets	BMP Fact Sheets are available in the LID BMP Design Handbook. Individual BMP Fact Sheets include sitting considerations, and design and sizing guidelines for seven types of structural BMPs (infiltration basin, infiltration trench, permeable pavement, harvest-and-use, bioretention, extended detention basin, and sand filter).
California Stormwater Quality Association (CASQA)	Publisher of the California Stormwater Best Management Practices Handbooks, available at www.cabmphandbooks.com.
Conventional Treatment Control BMP	A type of BMP that provides treatment of stormwater runoff. Conventional treatment control BMPs, while designed to treat particular Pollutants, typically do not provide the same level of volume reduction as LID BMPs, and commonly require more specialized maintenance than LID BMPs. As such, the Regional MS4 Permit and this WQMP require the use of LID BMPs wherever feasible, before Conventional Treatment BMPs can be considered or implemented.
Copermittees	The Regional MS4 Permit identifies the Cities of Murrieta, Temecula, and Wildomar, the County, and the District, as Copermittees for the SMR.
County	The abbreviation refers to the County of Riverside in this document.

CEQA	California Environmental Quality Act - a statute that requires state and local agencies to identify the significant environmental impacts of their actions and to avoid or mitigate those impacts, if feasible.
CIMIS	California Irrigation Management Information System - an integrated network of 118 automated active weather stations all over California managed by the California Department of Water Resources.
CWA	Clean Water Act - is the primary federal law governing water pollution. Passed in 1972, the CWA established the goals of eliminating releases of high amounts of toxic substances into water, eliminating additional water pollution by 1985, and ensuring that surface waters would meet standards necessary for human sports and recreation by 1983. CWA Section 402(p) is the federal statute requiring NPDES permits for discharges from MS4s.
CWA Section 303(d) Waterbody	Impaired water in which water quality does not meet applicable water quality standards and/or is not expected to meet water quality standards, even after the application of technology based pollution controls required by the CWA. The discharge of urban runoff to these water bodies by the Copermittees is significant because these discharges can cause or contribute to violations of applicable water quality standards.
Design Storm	The Regional MS4 Permit has established the 85th percentile, 24-hour storm event as the "Design Storm". The applicant may refer to Exhibit A to identify the applicable Design Storm Depth (D85) to the project.
DCV	Design Capture Volume (DCV) is the volume of runoff produced from the Design Storm to be mitigated through LID Retention BMPs, Other LID BMPs and Volume Based Conventional Treatment BMPs, as appropriate.
Design Flow Rate	The design flow rate represents the minimum flow rate capacity that flow-based conventional treatment control BMPs should treat to the MEP, when considered.
DCIA	Directly Connected Impervious Areas - those impervious areas that are hydraulically connected to the MS4 (i.e. street curbs, catch basins, storm drains, etc.) and thence to the structural BMP without flowing over pervious areas.
Discretionary Approval	A decision in which a Copermittee uses its judgment in deciding whether and how to carry out or approve a project.
District	Riverside County Flood Control and Water Conservation District.
DMA	A Drainage Management Area - a delineated portion of a project site that is hydraulically connected to a common structural BMP or conveyance point. The Applicant may refer to Section 3.3 for further guidelines on how to delineate DMAs.

Drawdown Time	Refers to the amount of time the design volume takes to pass through the BMP. The specified or incorporated drawdown times are to ensure that adequate contact or detention time has occurred for treatment, while not creating vector or other nuisance issues. It is important to abide by the drawdown time requirements stated in the fact sheet for each specific BMP.
Effective Area	Area which 1) is suitable for a BMP (for example, if infiltration is potentially feasible for the site based on infeasibility criteria, infiltration must be allowed over this area) and 2) receives runoff from impervious areas.
ESA	An Environmental Sensitive Area (ESA) designates an area "in which plants or animals life or their habitats are either rare or especially valuable because of their special nature or role in an ecosystem and which would be easily disturbed or degraded by human activities and developments". (Reference: California Public Resources Code § 30107.5).
ET	Evapotranspiration (ET) is the loss of water to the atmosphere by the combined processes of evaporation (from soil and plant surfaces) and transpiration (from plant tissues). It is also an indicator of how much water crops, lawn, garden, and trees need for healthy growth and productivity
FAR	The Floor Area Ratio (FAR) is the total square feet of a building divided by the total square feet of the lot the building is located on.
Flow-Based BMP	Flow-based BMPs are conventional treatment control BMPs that are sized to treat the design flow rate.
FPPP	Facility Pollution Prevention Plan
HCOC	Hydrologic Condition of Concern - Exists when the alteration of a site's hydrologic regime caused by development would cause significant impacts on downstream channels and aquatic habitats, alone or in conjunction with impacts of other projects.
HMP	Hydromodification Management Plan – Plan defining Performance Standards for PDPs to manage increases in runoff discharge rates and durations.
Hydrologic Control BMP	BMP to mitigate the increases in runoff discharge rates and durations and meet the Performance Standards set forth in the HMP.
HSG	Hydrologic Soil Groups – soil classification to indicate the minimum rate of infiltration obtained for bare soil after prolonged wetting. The HSGs are A (very low runoff potential/high infiltration rate), B, C, and D (high runoff potential/very low infiltration rate)
Hydromodification	The Regional MS4 Permit identifies that increased volume, velocity, frequency and discharge duration of storm water runoff from developed areas has the potential to greatly accelerate downstream erosion, impair stream habitat in natural drainages, and negatively impact beneficial uses.

JRMP	A separate Jurisdictional Runoff Management Plan (JRMP) has been developed by each Copermittee and identifies the local programs and activities that the Copermittee is implementing to meet the Regional MS4 Permit requirements.
LID	Low Impact Development (LID) is a site design strategy with a goal of maintaining or replicating the pre-development hydrologic regime through the use of design techniques. LID site design BMPs help preserve and restore the natural hydrologic cycle of the site, allowing for filtration and infiltration which can greatly reduce the volume, peak flow rate, velocity, and pollutant loads of storm water runoff.
LID BMP	A type of stormwater BMP that is based upon Low Impact Development concepts. LID BMPs not only provide highly effective treatment of stormwater runoff, but also yield potentially significant reductions in runoff volume – helping to mimic the pre-project hydrologic regime, and also require less ongoing maintenance than Treatment Control BMPs. The applicant may refer to Chapter 2.
LID BMP Design Handbook	The LID BMP Design Handbook was developed by the Copermittees to provide guidance for the planning, design and maintenance of LID BMPs which may be used to mitigate the water quality impacts of PDPs within the County.
LID Bioretention BMP	LID Bioretention BMPs are bioretention areas are vegetated (i.e., landscaped) shallow depressions that provide storage, infiltration, and evapotranspiration, and provide for pollutant removal (e.g., filtration, adsorption, nutrient uptake) by filtering stormwater through the vegetation and soils. In bioretention areas, pore spaces and organic material in the soils help to retain water in the form of soil moisture and to promote the adsorption of pollutants (e.g., dissolved metals and petroleum hydrocarbons) into the soil matrix. Plants use soil moisture and promote the drying of the soil through transpiration. The Regional MS4 Permit defines "retain" as to keep or hold in a particular place, condition, or position without discharge to surface waters.
LID Biofiltration BMP	BMPs that reduce stormwater pollutant discharges by intercepting rainfall on vegetative canopy, and through incidental infiltration and/or evapotranspiration, and filtration, and other biological and chemical processes. As stormwater passes down through the planting soil, pollutants are filtered, adsorbed, biodegraded, and sequestered by the soil and plants, and collected through an underdrain.
LID Harvest and Reuse BMP	BMPs used to facilitate capturing Stormwater Runoff for later use without negatively impacting downstream water rights or other Beneficial Uses.

LID Infiltration BMP	BMPs to reduce stormwater runoff by capturing and infiltrating the runoff into in-situ soils or amended onsite soils. Typical LID Infiltration BMPs include infiltration basins, infiltration trenches and pervious pavements.
LID Retention BMP	BMPs to ensure full onsite retention without runoff of the DCV such as infiltration basins, bioretention, chambers, trenches, permeable pavement and pavers, harvest and reuse.
LID Principles	Site design concepts that prevent or minimize the causes (or drivers) of post-construction impacts, and help mimic the pre-development hydrologic regime.
MEP	Maximum Extent Practicable - standard established by the 1987 amendments to the CWA for the reduction of Pollutant discharges from MS4s. Refer to Attachment C of the Regional MS4 Permit for a complete definition of MEP.
MF	Multi-family – zoning classification for parcels having 2 or more living residential units.
MS4	Municipal Separate Storm Sewer System (MS4) is a conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains): (i) Owned or operated by a State, city, town, borough, county, parish, district, association, or other public body (created by or pursuant to State law) having jurisdiction over disposal of sewage, industrial wastes, storm water, or other wastes, including special districts under State law such as a sewer district, flood control district or drainage district, or similar entity, or an Indian tribe or an authorized Indian tribal organization, or designated and approved management agency under section 208 of the CWA that discharges to waters of the United States; (ii) Designated or used for collecting or conveying storm water; (iii) Which is not a combined sewer; (iv) Which is not part of the Publicly Owned Treatment Works (POTW) as defined at 40 CFR 122.26.
New Development Project	Defined by the Regional MS4 Permit as 'Priority Development Projects' if the project, or a component of the project meets the categories and thresholds described in Section 1.1.1.
NPDES	National Pollution Discharge Elimination System - Federal program for issuing, modifying, revoking and reissuing, terminating, monitoring and enforcing permits, and imposing and enforcing pretreatment requirements, under Sections 307, 318, 402, and 405 of the CWA.
NRCS	Natural Resources Conservation Service
PDP	Priority Development Project - Includes New Development and Redevelopment project categories listed in Provision E.3.b of the Regional MS4 Permit.

Priority Pollutants of Concern	Pollutants expected to be present on the project site and for which a downstream water body is also listed as Impaired under the CWA Section 303(d) list or by a TMDL.
Project-Specific WQMP	A plan specifying and documenting permanent LID Principles and Stormwater BMPs to control post-construction Pollutants and stormwater runoff for the life of the PDP, and the plans for operation and maintenance of those BMPs for the life of the project.
Receiving Waters	Waters of the United States.
Redevelopment Project	The creation, addition, and or replacement of impervious surface on an already developed site. Examples include the expansion of a building footprint, road widening, the addition to or replacement of a structure, and creation or addition of impervious surfaces. Replacement of impervious surfaces includes any activity that is not part of a routine maintenance activity where impervious material(s) are removed, exposing underlying soil during construction. Redevelopment does not include trenching and resurfacing associated with utility work; resurfacing existing roadways; new sidewalk construction, pedestrian ramps, or bike lane on existing roads; and routine replacement of damaged pavement, such as pothole repair. Project that meets the criteria described in Section 1.
Runoff Fund	Runoff Funds have not been established by the Copermittees and are not available to the Applicant. If established, a Runoff Fund will develop regional mitigation projects where PDPs will be able to buy mitigation credits if it is determined that implementing onsite controls is infeasible.
San Diego Regional Board	San Diego Regional Water Quality Control Board - The term "Regional Board", as defined in Water Code section 13050(b), is intended to refer to the California Regional Water Quality Control Board for the San Diego Region as specified in Water Code Section 13200. State agency responsible for managing and regulating water quality in the SMR.
SCCWRP	Southern California Coastal Water Research Project
Site Design BMP	Site design BMPs prevent or minimize the causes (or drivers) of post-construction impacts, and help mimic the pre-development hydrologic regime.
SF	Parcels with a zoning classification for a single residential unit.
SMC	Southern California Stormwater Monitoring Coalition
SMR	The Santa Margarita Region (SMR) represents the portion of the Santa Margarita Watershed that is included within the County of Riverside.

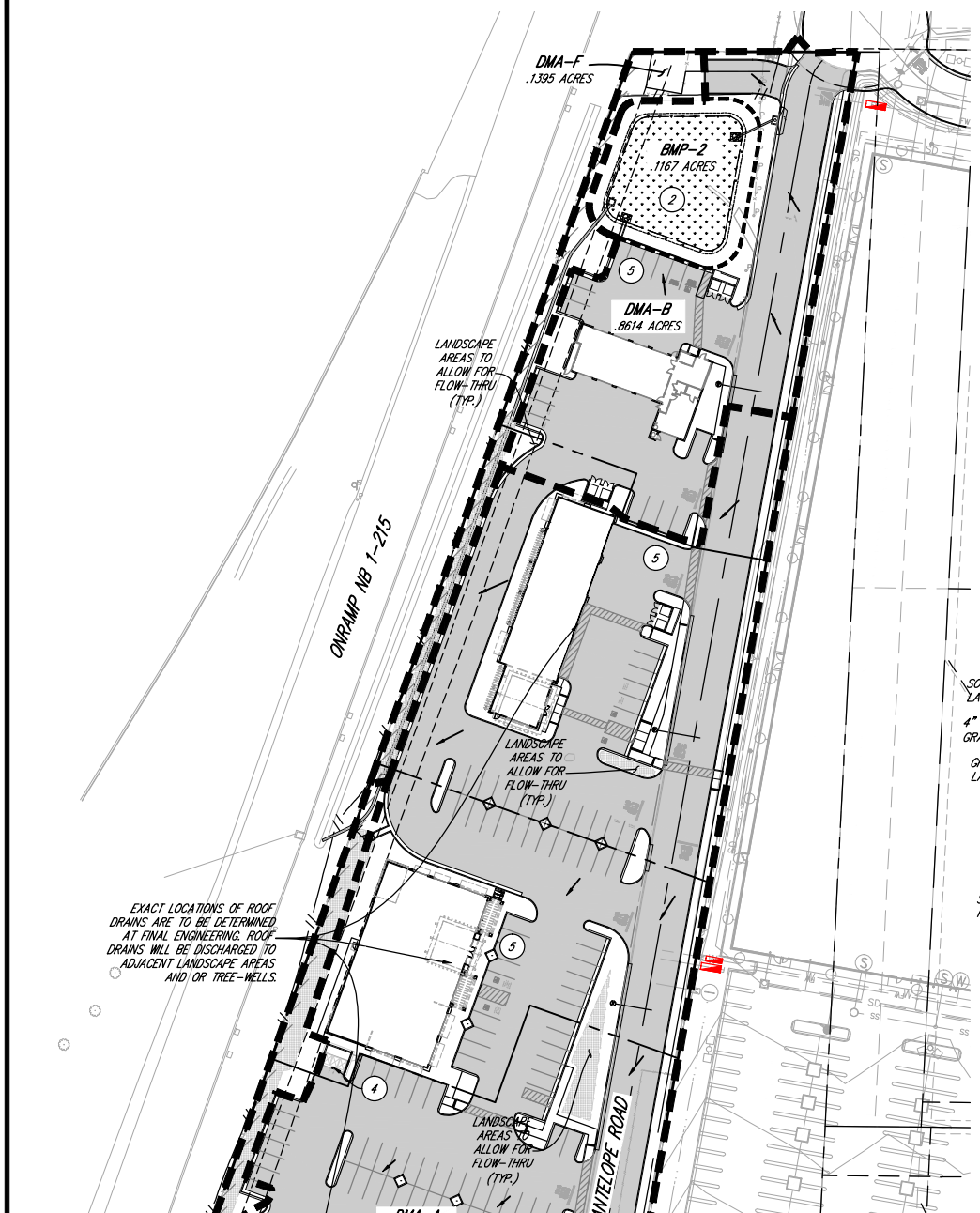
Source Control BMP	Source Control BMPs land use or site planning practices, or structural or nonstructural measures that aim to prevent runoff pollution by reducing the potential for contamination at the source of pollution. Source control BMPs minimize the contact between Pollutants and runoff.
Structural BMP	Structures designed to remove pollutants from stormwater runoff and mitigate hydromodification impacts.
SWPPP	Storm Water Pollution Prevention Plan
Tentative Tract Map	Tentative Tract Maps are required for all subdivision creating five (5) or more parcels, five (5) or more condominiums as defined in Section 783 of the California Civil Code, a community apartment project containing five (5) or more parcels, or for the conversion of a dwelling to a stock cooperative containing five (5) or more dwelling units.
TMDL	Total Maximum Daily Load - the maximum amount of a Pollutant that can be discharged into a waterbody from all sources (point and non-point) and still maintain Water Quality Standards. Under CWA Section 303(d), TMDLs must be developed for all waterbodies that do not meet Water Quality Standards after application of technology-based controls.
USEPA	United States Environmental Protection Agency
Volume-Based BMP	Volume-Based BMPs applies to BMPs where the primary mode of pollutant removal depends upon the volumetric capacity such as detention, retention, and infiltration systems.
WQMP	Water Quality Management Plan
Wet Season	The Regional MS4 Permit defines the wet season from October 1 through April 30.

Appendix 1: Maps and Site Plans

Location Map, WQMP Site Plan and Receiving Waters Map

Complete the checklist below to verify all exhibits and components are included in the Project-Specific WQMP. Refer Section 4 of the SMR WQMP and Section D of this Template.

Map and Site Plan Checklist
Indicate all Maps and Site Plans are included in your Project-Specific WQMP by checking the boxes below.
☒ Vicinity and Location Map
☒ Existing Site Map (unless exiting conditions are included in WQMP Site Plan)
☒ WQMP Site Plan
☒ Parcel Boundary and Project Footprint
☒ Existing and Proposed Topography
☒ Drainage Management Areas (DMAs)
☒ Proposed Structural Best Management Practices (BMPs)
☒ Drainage Paths
☒ Drainage infrastructure, inlets, overflows
☒ Source Control BMPs
☒ Site Design BMPs
☒ Buildings, Roof Lines, Downspouts
☒ Impervious Surfaces
☒ Pervious Surfaces (i.e. Landscaping)
☒ Standard Labeling

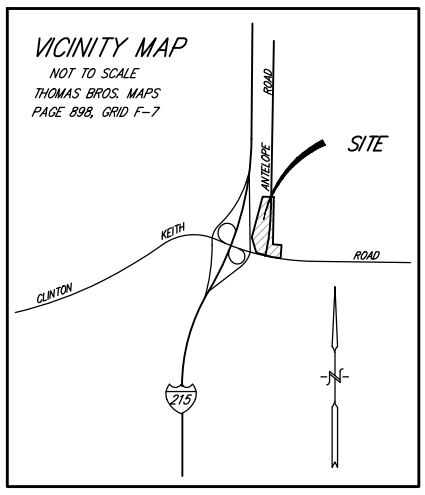


LEGEND - ABBREVIATIONS:

INDICATES DMA BOUNDARY.
SHEET FLOW

IMPERVIOUS AREAS
A/C PAVEMENT
PCC PAVEMENT
ROOF

PERVIOUS AREAS
LANDSCAPE AREAS



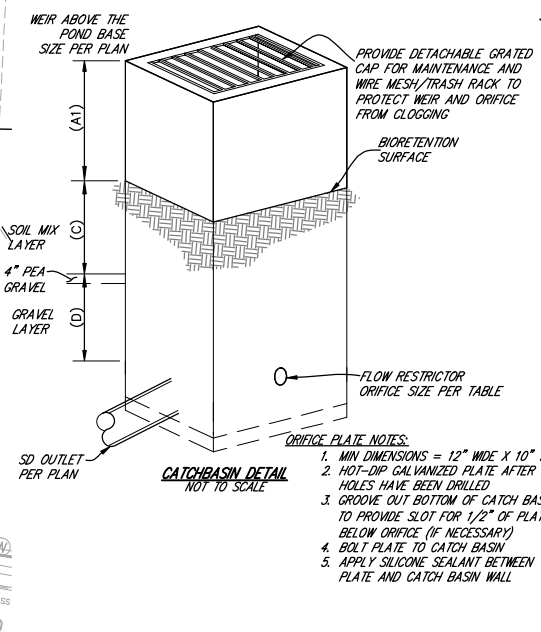
ENGINEER OF WORK

EXCEL ENGINEERING

LAND PLANNING ENGINEERING SURVEYING
440 STATE PLACE, ESCONDIDO, CA 92029
PH (760)745-8118 FAX (760)745-1890

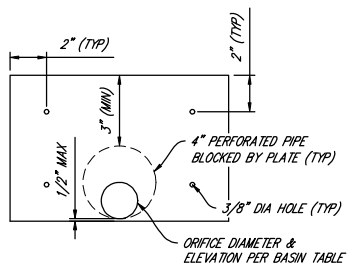
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Aug 05, 2019
DATE



CATCHBASIN DETAIL
NOT TO SCALE

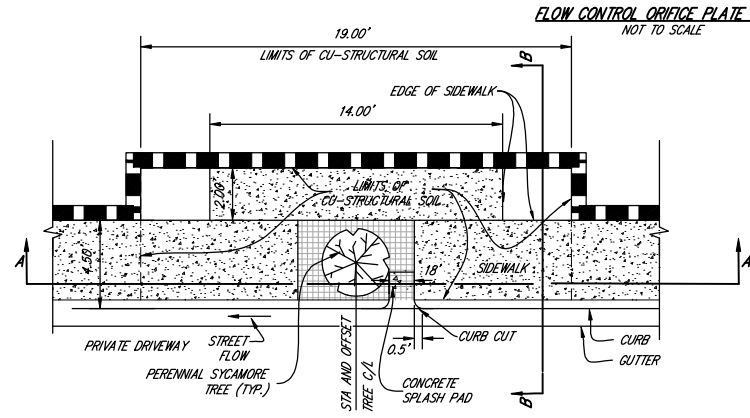
ORIFICE PLATE NOTES:
1. MIN DIMENSIONS = 12" WIDE X 10" TALL
2. HOT-DIP GALVANIZED PLATE AFTER HOLES HAVE BEEN DRILLED
3. GROOVE OUT BOTTOM OF CATCH BASIN TO PROVIDE SLOT FOR 1/2" OF PLATE BELOW ORIFICE (IF NECESSARY)
4. BOLT PLATE TO CATCH BASIN
5. APPLY SILICONE SEALANT BETWEEN PLATE AND CATCH BASIN WALL



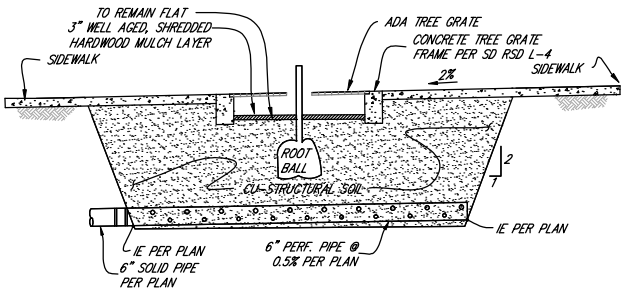
FLOW CONTROL ORIFICE PLATE DETAIL
NOT TO SCALE

SOURCE CONTROL BMP

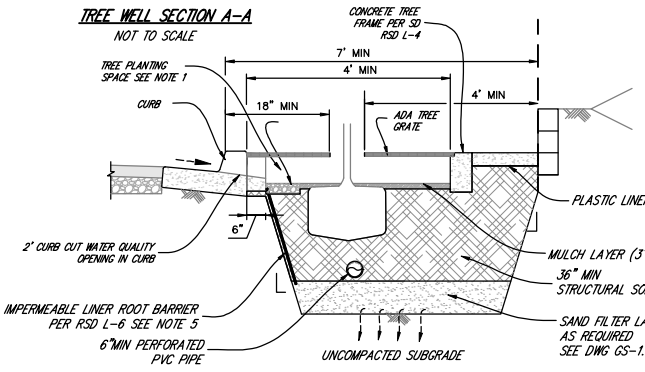
1. ON-SITE STORM DRAIN INLETS TO BE MARK WITH THE WORDS "ONLY RAIN DOWN THE STORM DRAINS"
2. LANDSCAPE/OUTDOOR PESTICIDE USE. DESIGN LANDSCAPING TO MINIMIZE IRRIGATION AND RUNOFF, TO PROMOTE SURFACE INFILTRATION WHERE APPROPRIATE, AND TO MINIMIZE THE USE OF FERTILIZERS AND PESTICIDES THAT CAN CONTRIBUTE TO STORMWATER POLLUTION.
3. FLOOR SINK DRAINS WILL BE CONNECTED TO A GREASE INTERCEPTOR BEFORE DISCHARGING TO THE SANITARY SEWER.
4. REFUSE AREAS, SIGN WILL BE POSTED ON OR NEAR DUMPSTER WITH WORDS "DO NOT DUMP HAZARDS MATERIALS HERE" OR SIMILAR. KEEP LIDS CLOSED AND AREA CLEAN.
5. PLAZAS, SIDEWALKS AND PARKING LOTS, SWEEP PLAZAS, SIDEWALKS, AND PARKING LOTS REGULARLY TO PREVENT ACCUMULATION OF LITTER AND DEBRIS.



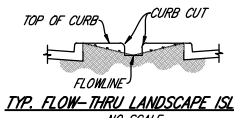
TREE WELL DETAIL PLAN VIEW
NOT TO SCALE



TREE WELL SECTION A-A
NOT TO SCALE

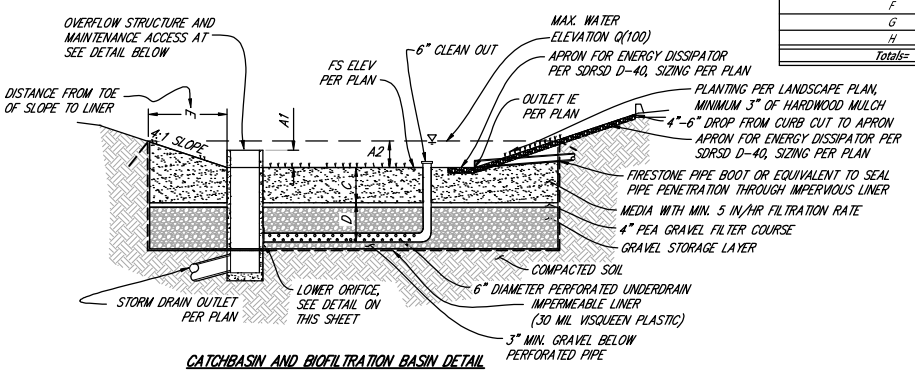


TREE WELL SECTION B-B
NOT TO SCALE



TYP. FLOW-THRU LANDSCAPE ISLAND
NO SCALE

DMA Type/ID	DMA (square feet)	Post-Project Surface Type	Effective Impervious Fraction, If	DMA Runoff Factor, C	Dma Areas * Runoff Factor	BMP Name/ID	Design Storm Depth (in)	DCV, VBMP (ft3)
	[A]		[B]	[C]	[A]*[C]			
A	179743	Mixed	0.85	0.66	118156	1	0.61	6006
B	37522	Mixed	0.85	0.66	24665	2	0.61	1254
C	9024	Mixed	0.85	0.66	5932	3	0.61	302
D	35499	Mixed	0.85	0.66	23336	4	0.61	1186
E	6068	Mixed	0.85	0.66	4005	6	0.61	353
F	6077	Landscape	0.10	0.11	671			
G	9474	Mixed	0.85	0.66	6228	5	0.61	317
H	4264	Landscape	0.10	0.11	471			
Totals=	287671				178064	Totals=	0.61	9101



CATCHBASIN AND BIOFILTRATION BASIN DETAIL
NOT TO SCALE

*BECAUSE RECEIVING WATERS ARE IMPACTED BY NUTRIENTS, A SPECIAL SOIL MIX SHALL BE PLACED MINIMIZING NUTRIENTS TO NO MORE THAN IS NECESSARY TO BENEFIT GROWTH. THE CONTRACTOR SHALL PROVIDE A MIX DESIGN TO THE ENGINEER OF WORK PRIOR TO INSTALLATION.

BIO-BASIN SUMMARY TABLE

BASIN	TYPE OF BASIN	EFFECTIVE AREA	A1 (INCH) RISER	A2 (INCH) TOP OF BASIN	C (INCH) MEDIA	D (INCH) GRAVEL	E (FEET)	BOX RISER / OVERFLOW STRUCTURE SIZE (INCHES)	ORIFICE DIAMETER (INCHES)	IMPERMEABLE LINER ?
BMP-1	BIOFILTRATION	6811	6	12	24	12	2	36X36	0.938	TO BE DETERMINED
BMP-2	BIOFILTRATION	5083	8	12	18	12	2	36X36	0.875	TO BE DETERMINED
BMP-3	BIOFILTRATION	395	6	12	24	18	2	36X36	1.000	TO BE DETERMINED
BMP-4	BIOFILTRATION	1207	6	12	24	18	2	36X36	1.000	TO BE DETERMINED
BMP-5	BIOFILTRATION	302	6	12	24	18	2	36X36	1.000	TO BE DETERMINED

CURCI WQMP SITE PLAN

DMA AND SOURCE CONTROL EXHIBIT

SHEET 1 OF 1

H:\17053\engineering\WQMP\Current\DMA exhibit-2.dwg 8/5/2019 4:34 PM ORIGINAL PLOT SIZE: ---

SCALE: 1"=40'

0 40 80 120 160

LEGEND - ABBREVIATIONS:

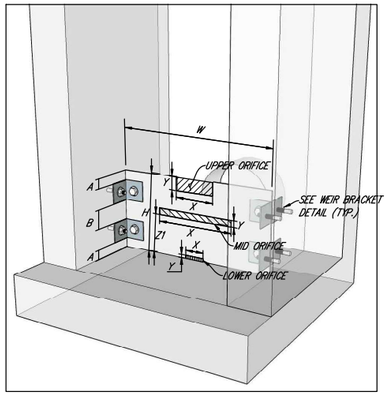
INDICATES DMA BOUNDARY.
SHEET FLOW

IMPERVIOUS AREAS
- A/C PAVEMENT
- PCC PAVEMENT
- ROOF

PERVIOUS AREAS
- LANDSCAPE AREAS
- POLLUTANT TREATMENT AND HYDROMODIFICATION FACILITY
- HYDROMODIFICATION FLOW CONTROL FACILITY

SOURCE CONTROL BMP

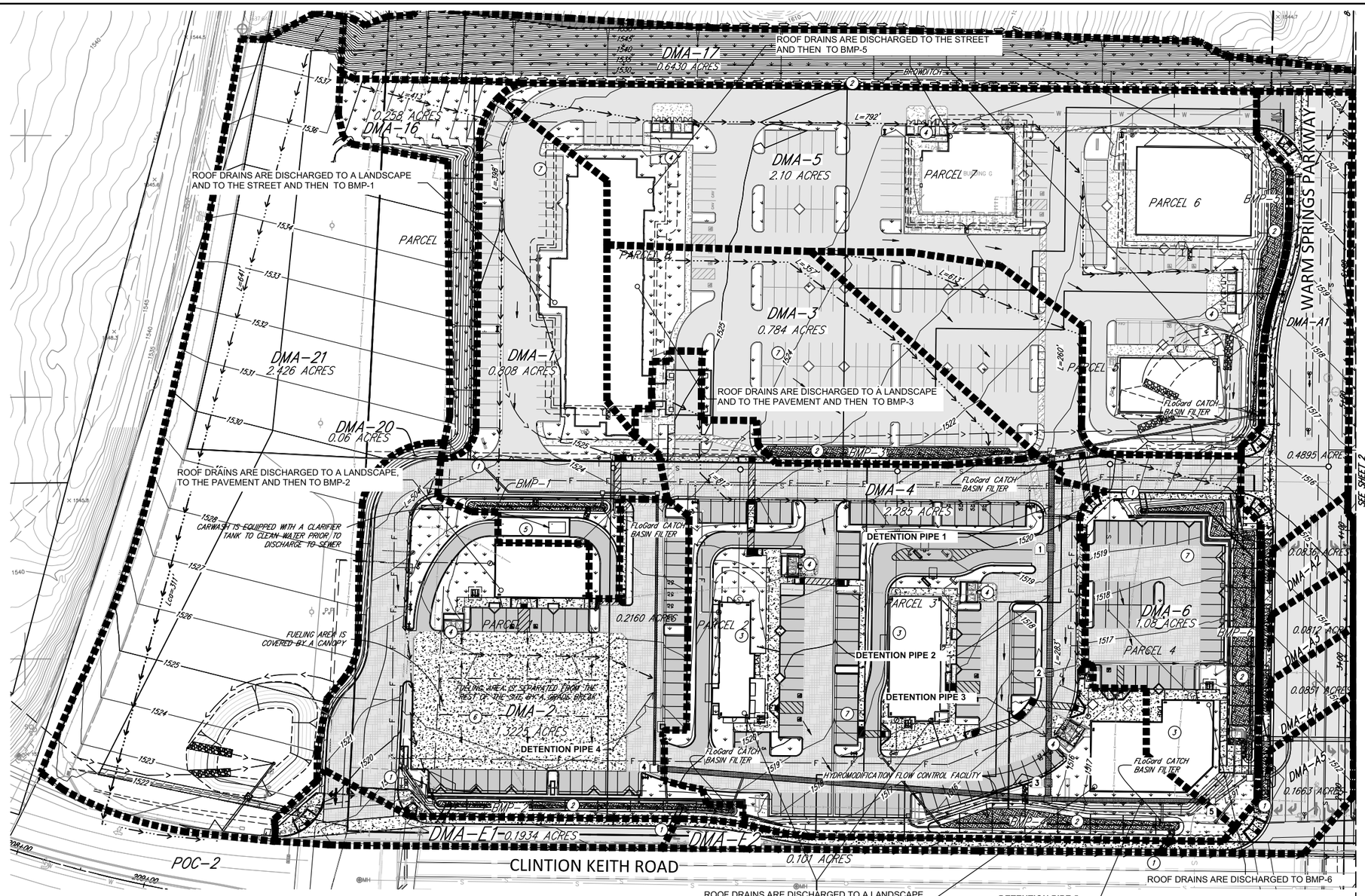
1. MARK ALL INLETS WITH THE WORDS "ONLY RAIN DOWN THE DRAIN" OR SIMILAR
2. LANDSCAPE/OUTDOOR PESTICIDE USE: MINIMIZE THE USE OF FERTILIZERS AND PESTICIDES THAT CONTRIBUTE TO STORMWATER POLLUTION. PLANTS ON BIO-RETENTIONS ARE TOLERANT OF SATURATED SOIL
3. FOOD SERVICE: DRAIN FROM RESTAURANTS, GROCERY STORES THE FLOOR SINK WILL BE CONNECTED TO A GREASE INTERCEPTOR BEFORE DISCHARGING TO A SANITARY SEWER.
4. REFUSE AREAS ARE PROTECTED FROM RAINFALL, RUN-ON, RUN-OFF AND WIND DISPERSAL BY ROOFED, WALLED ENCLOSURE LOCATED AWAY FROM STORM DRAIN.
5. VEHICLE CLEANING: WASHING AREAS FOR CARS SHALL BE PAVED, DESIGNED TO PREVENT RUN-ON TO OR RUN-OFF TO DRAIN TO THE SANITARY SEWER. CAR WASH SHOULD HAVE A CLARIFIER TANK TO CLEAN AND REUSE WATER WHEN POSSIBLE AND DISCHARGE TO SEWER.
6. FUEL DISPENSING AREAS: FUELING AREAS SHALL HAVE IMPERMEABLE FLOORS THAT ARE GRADED AT THE MINIMUM SLOPE NECESSARY BUT TO PREVENT PONDING, COVERED BY A CANOPY THAT EXTENDS A MINIMUM OF THEN FEET IN EACH DIRECTION FROM EACH PUMP. THE CANOPY SHALL NOT DRAIN ONTO THE FUELING AREA. FUELING AREA IS SEPARATED FROM THE REST OF THE SITE BY A GRADE BREAK THAT PREVENTS RUN-ON OF STORMWATER TO THE MAXIMUM EXTENT PRACTICABLE.
7. PARKING LOT SWEEPING: USE DRY CLEANING METHODS TO PREVENT THE DISCHARGE OF POLLUTANTS INTO THE STORMWATER CONVEYANCE SYSTEM. ROUTINELY SWEEP, SHOVEL AND DISPOSE OF LITTER IN THE TRASH.

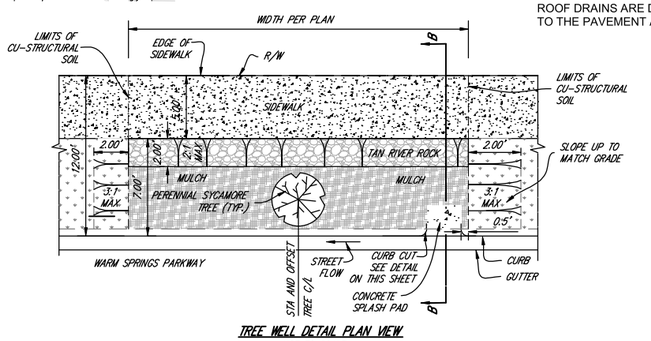


WEIR NOTES
- WEIR STRUCTURE TO BE HITEC HDPE SHEET, 1/4" THICK, OR EQUIVALENT
- SEE WEIR STRUCTURE MEASUREMENT TABLE FOR ORIFICE INFORMATION
- SEE WEIR BRACKET DETAILS FOR MOUNTING INFORMATION
- THIS DETAIL APPLIES TO BASINS 1-6; SEE WEIR STRUCTURE MEASUREMENT TABLE BELOW. BASIN 2 HAS TWO MID ORIFICES REFER TO DETAIL ON SHEET 10.

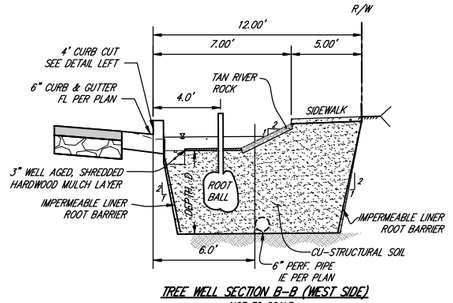
WEIR DETAIL
NOT TO SCALE

Weir Structure Measurements (inches)																
#	W	H	T	Lower Orifice		Mid Orifice			Second Mid Orifice			Upper Orifice		Bracket Placement		
				X	Y	X	Y	Z1	X	Y	Z2	X	Y	A	B	Count
1	60	48	1/4	1	3	18	6	30	--	--	--	--	--	6	13.5	12
2	60	52	1/4	1	1	30	3	27	30	3	46	--	--	6	15.5	12
3	60	27	1/4	1	1	--	--	--	--	--	--	--	--	6	9	8
4	60	42	1/4	0.5	0.5	--	--	--	--	--	--	--	--	6	10.5	12
5	48	30	1/4	1	1	18	2	21	--	--	--	24	3	6	12	8
6	48	27	1/4	3	2	12	2	12	--	--	--	18	4	6	9	8





TREE WELL DETAIL PLAN VIEW
NOT TO SCALE



TREE WELL SECTION B-B (WEST SIDE)
NOT TO SCALE

CK 17 THE VINEYARDS DMA AND SOURCE CONTROL EXHIBIT
ULTIMATE BUILD-OUT
SHEET 1 OF 2

ENGINEER OF WORK
EXCEL ENGINEERING
LAND PLANNING ENGINEERING SURVEYING
440 STATE PLACE, ESCONDIDO, CA 92029
PH (760)745-8118 FAX (760)745-1890
ROBERT D. DENTINO
RCE: 45629 EXP:12/31/18

K:\16\16063\engineering\DRP\current\Storm\current\WQMP\DMA & Source Control exhibit.dwg 2/27/2019 2:36 PM ORIGINAL PLOT SIZE: ----

SITE LOCATION

WILDOMAR

MURRIETA

TEMECULA

SANTA MARGARITA RIVER
WATERSHED

CAHUILLA INDIAN RESERVATION

Warm Springs Creek

Tucalota Creek

Murrieta Creek

Santa Gertrudis Creek

Long Canyon

Cole Creek

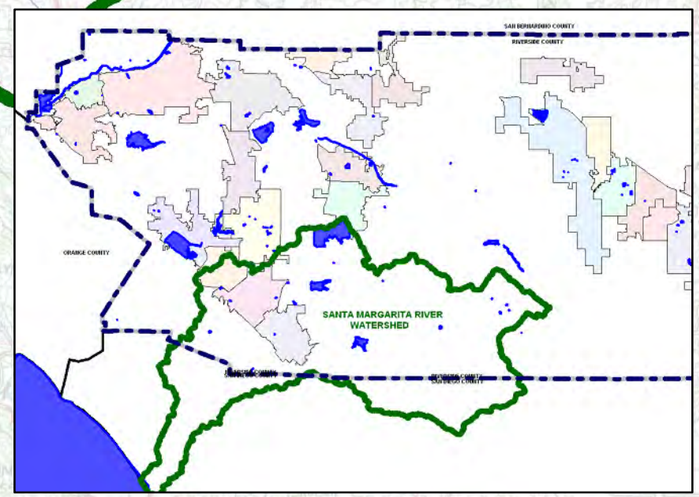
Adobe Creek

Temecula Creek

Redhawk

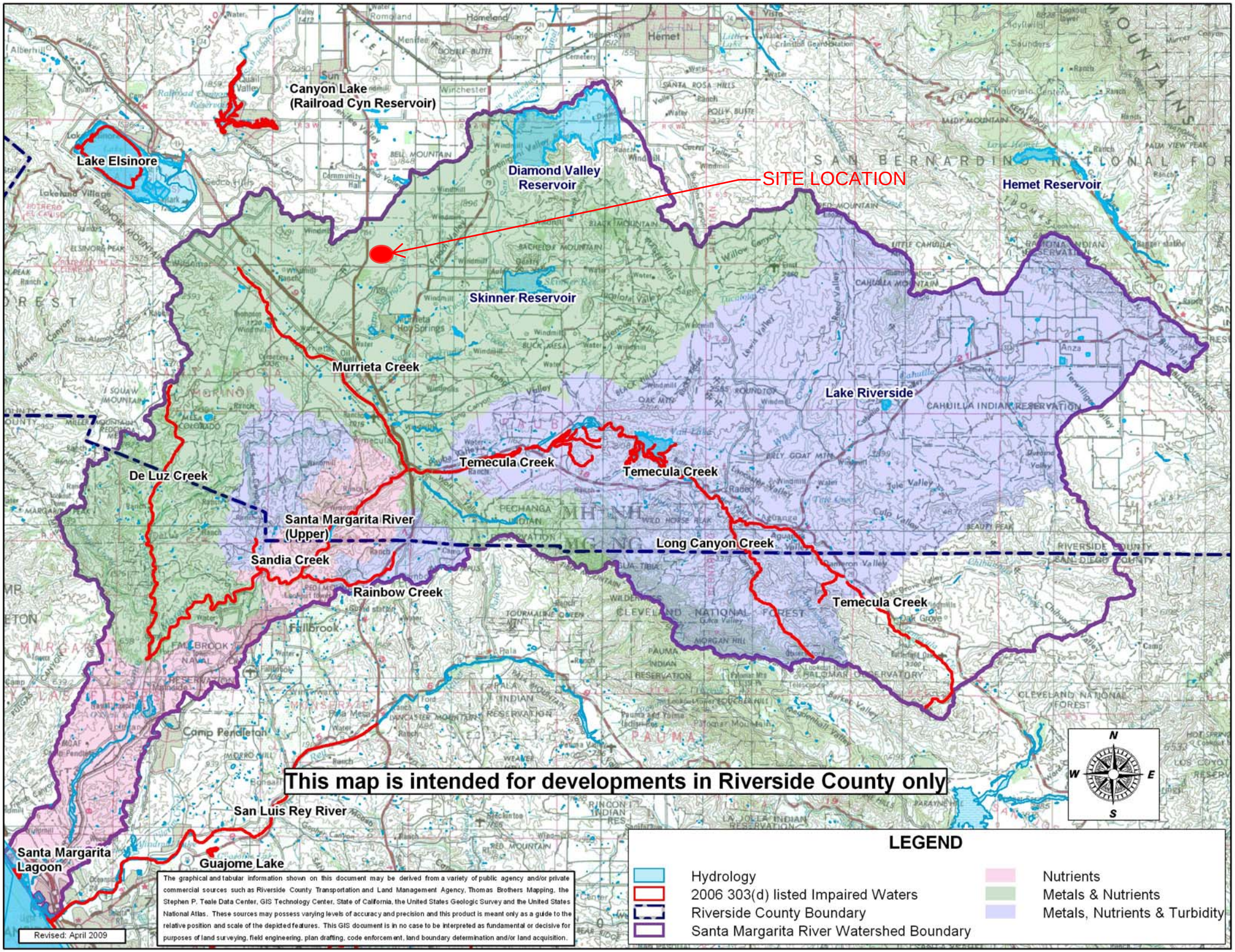
Santa Margarita

N

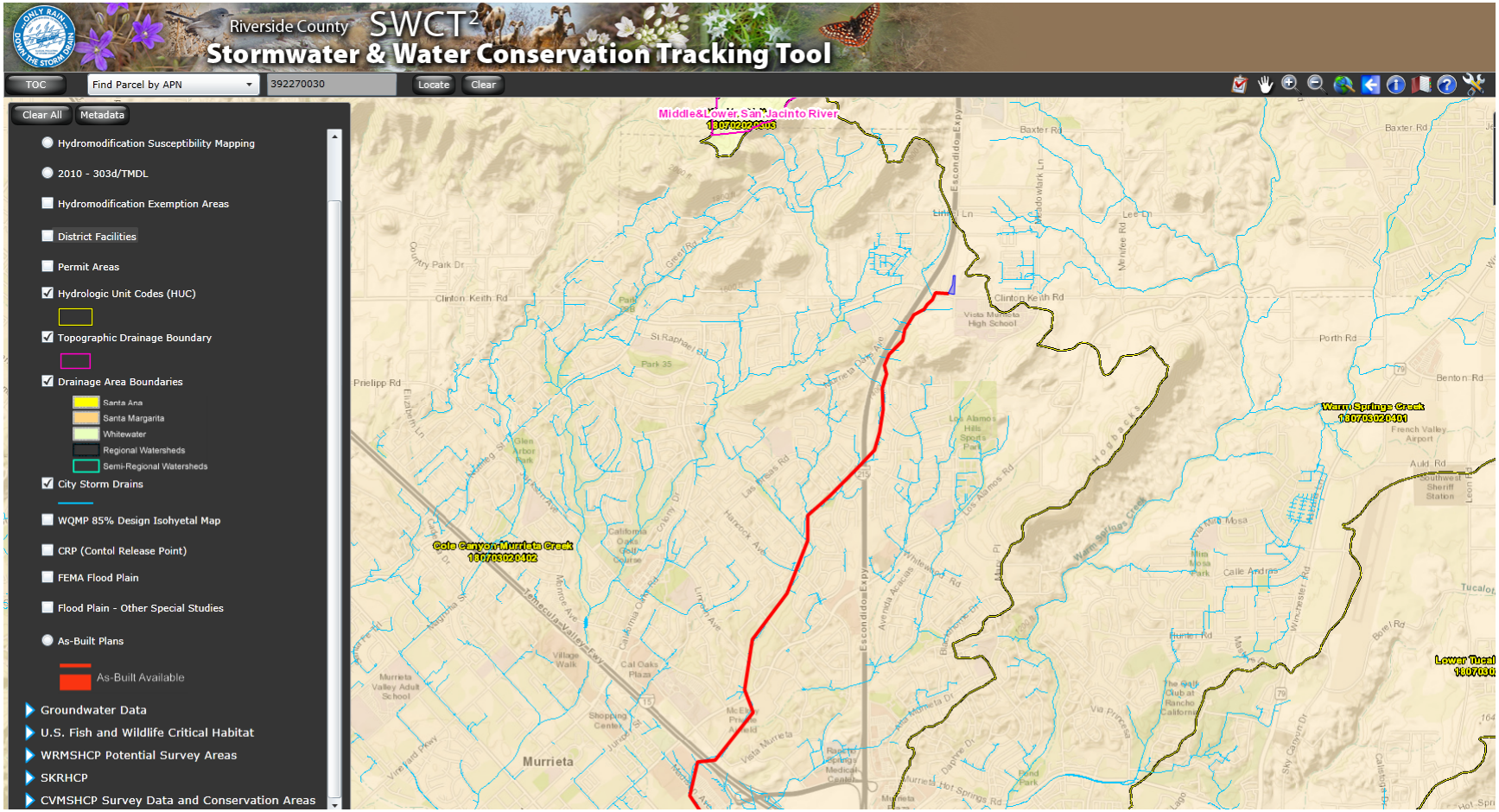


RIVERSIDE COUNTY FLOOD CONTROL
AND WATER CONSERVATION DISTRICT
GEOGRAPHIC INFORMATION SYSTEM
September 2009

The graphical and tabular information shown on this document may be derived from a variety of public agency and/or private commercial sources such as Riverside County Transportation and Land Management Agency, Thomas Brothers Mapping, the Stephen P. Teale Data Center, GIS Technology Center, State of California, the United States Geologic Survey and the United States National Atlas. These sources may possess varying levels of accuracy and precision and this product is meant only as a guide to the relative position and scale of the depicted features. This GIS document is in no case to be interpreted as fundamental or decisive for purposes of land surveying, field engineering, plan drafting, code enforcement, land boundary determination and/or land acquisition.


Canyon Lake
(Railroad Cyn Reservoir)
Lake Elsinore
Diamond Valley
Reservoir
SITE LOCATION
Hemet Reservoir
Skinner Reservoir
Murrieta Creek
Lake Riverside
Temecula Creek
Temecula Creek
De Luz Creek
Santa Margarita River
(Upper)
Long Canyon Creek
Sandia Creek
Rainbow Creek
Temecula Creek
Fallbrook
Camp Pendleton
San Luis Rey River
Santa Margarita
Lagoon
Guajome Lake
This map is intended for developments in Riverside County only
N
W
E
S
LEGEND
Hydrology
2006 303(d) listed Impaired Waters
Riverside County Boundary
Santa Margarita River Watershed Boundary
Nutrients
Metals & Nutrients
Metals, Nutrients & Turbidity
The graphical and tabular information shown on this document may be derived from a variety of public agency and/or private commercial sources such as Riverside County Transportation and Land Management Agency, Thomas Brothers Mapping, the Stephen P. Teale Data Center, GIS Technology Center, State of California, the United States Geologic Survey and the United States National Atlas. These sources may possess varying levels of accuracy and precision and this product is meant only as a guide to the relative position and scale of the depicted features. This GIS document is in no case to be interpreted as fundamental or decisive for purposes of land surveying, field engineering, plan drafting, code enforcement, land boundary determination and/or land acquisition.
Revised: April 2009


Riverside County SWCT²
Stormwater & Water Conservation Tracking Tool
TOC
Find Parcel by APN
392270030
Locate
Clear
Clear All
Metadata
Hydromodification Susceptibility Mapping
2010 - 303d/TMDL
Hydromodification Exemption Areas
District Facilities
Permit Areas
Hydrologic Unit Codes (HUC)
Topographic Drainage Boundary
Drainage Area Boundaries
Santa Ana
Santa Margarita
Whitewater
Regional Watersheds
Semi-Regional Watersheds
City Storm Drains
WQMP 85% Design Isohyetal Map
CRP (Contol Release Point)
FEMA Flood Plain
Flood Plain - Other Special Studies
As-Built Plans
As-Built Available
Groundwater Data
U.S. Fish and Wildlife Critical Habitat
WRMSHCP Potential Survey Areas
SKRHCP
CLINTON KEITH RD
ANTELOPE RD
WHITEWOOD RD
Cole Canyon-Murrieta Creek
1807030402
1511 ft
1515 ft


Riverside County SWCT²
Stormwater & Water Conservation Tracking Tool
TOC
Find Parcel by APN
392270030
Locate
Clear
Clear All
Metadata
Hydromodification Susceptibility Mapping
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Flood Plain - Other Special Studies
As-Built Plans
As-Built Available
Groundwater Data
U.S. Fish and Wildlife Critical Habitat
WRMSHCP Potential Survey Areas
SKRHCP
CVMSHCP Survey Data and Conservation Areas
Middle&Lower San Jacinto River
Cole Canyon-Murrieta Creek
Warm Springs Creek
Murrieta

Appendix 2: Construction Plans

Grading and Drainage Plans

Examples of material to provide in Appendix 2 may include but are not limited to the following:

- Site grading plans from the Project's Civil Plan Set,
- Drainage plans showing the exiting condition and proposed drainage system from the project's drainage report,
- Other plan sheets containing elements that impact site grading and drainage.

Refer to Section 4 of the SMR WQMP and Section I of this Template.

Appendix 3: Soils Information

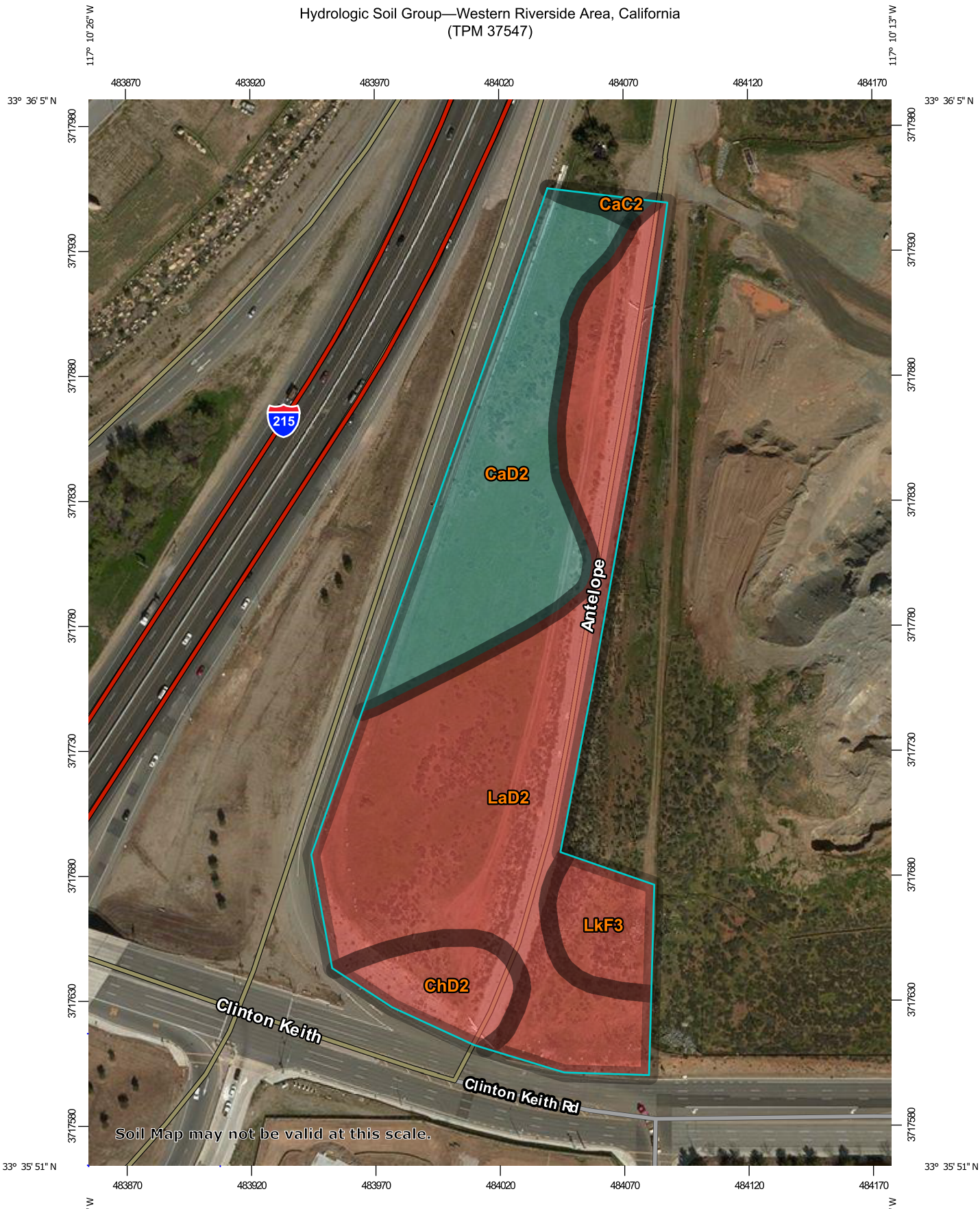
Geotechnical Study, Other Infiltration Testing Data, and/or Other Documentation

Examples of material to provide in Appendix 3 may include but are not limited to the following:

- Geotechnical Study/Report prepared for the project,
- Additional soils testing data (if not included in the Geotechnical Study),
- Exhibits/Maps/Other Documentation of the Hydrologic Soils Groups (HSG)s at the project site.

This information should support the Full Infiltration Applicability, and Biofiltration Applicability sections of this Template. Refer to Section 2.3 of the SMR WQMP and Sections A and D of this Template.

Hydrologic Soil Group—Western Riverside Area, California
(TPM 37547)



Map Scale: 1:2,080 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 30 60 120 180

Feet: 0 100 200 400 600

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 11N WGS84

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

Soil Rating Polygons

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Lines

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Points

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Water Features

- Streams and Canals

Transportation

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background

- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Western Riverside Area, California
Survey Area Data: Version 10, Sep 12, 2017

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 24, 2015—Feb 26, 2015

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
CaC2	Cajalco fine sandy loam, 2 to 8 percent slopes, eroded	C	0.0	0.6%
CaD2	Cajalco fine sandy loam, 8 to 15 percent slopes, eroded	C	2.1	28.7%
ChD2	Cieneba sandy loam, 8 to 15 percent slopes, eroded	D	0.5	6.8%
LaD2	Las Posas loam, 8 to 15 percent slopes, eroded	D	4.3	57.7%
LkF3	Las Posas rocky loam, 15 to 50 percent slopes, severely eroded	D	0.5	6.2%
Totals for Area of Interest			**7.4**	**100.0%**

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

Appendix 4: Historical Site Conditions

Phase I Environmental Site Assessment or Other Information on Past Site Use

Examples of material to provide in Appendix 4 may include but are not limited to the following:

- Environmental Site Assessments conducted for the project,
- Other information on Past Site Use that impacts the feasibility of LID BMP implementation on the site.

This information should support the Full Infiltration Applicability, and Biofiltration Applicability sections of this Template. Refer to Section 2.3 of the SMR WQMP and Sections D of this Template.

Appendix 5: LID Feasibility Supplemental Information

Information that supports or supplements the determination of LID technical feasibility documented in Section D

Examples of material to provide in Appendix 5 may include but are not limited to the following:

- Technical feasibility criteria for DMAs
- Site specific analysis of technical infeasibility of all LID BMPs (if Alternative Compliance is needed)
- Documentation of Approval criteria for Proprietary Biofiltration BMPs

This information should support the Full Infiltration Applicability, and Biofiltration Applicability sections of this Template. Refer to Section 2.3 of the SMR WQMP and Sections D of this Template.

Appendix 6: LID BMP Design Details

BMP Sizing, Design Details and other Supporting Documentation to supplement Section D

Examples of material to provide in Appendix 6 may include but are not limited to the following:

- DCV calculations,
- LID BMP sizing calculations from Exhibit C of the SMR WQMP
- Design details/drawings from manufacturers for proprietary BMPs

This information should support the Full Infiltration Applicability, and Biofiltration Applicability sections of this Template. Refer to Section 3.4 of the SMR WQMP and Sections D.4 of this Template.

Santa Margarita Watershed

BMP Design Volume, V_{BMP} (Rev. 03-2012)

Legend: Required Entries / Calculated Cells

(Note this worksheet shall **only** be used in conjunction with BMP designs from the **LID BMP Design Handbook**)

Company Name	EXCEL ENGINEERING	Date	5/29/2018
Designed by	Ian Z	County/City Case No	
Company Project Number/Name	17-053		
Drainage Area Number/Name	DMA-A		

Enter the Area Tributary to this Feature A_T = 4.126 acres

85th Percentile, 24-hour Rainfall Depth, from the Isohyetal Map in Handbook Appendix E

Site Location	Township	07S
	Range	03W
	Section	35
Enter the 85th Percentile, 24-hour Rainfall Depth	D_{85} =	0.61

Determine the Effective Impervious Fraction

Type of post-development surface cover (use pull down menu)		Mixed Surface Types
Effective Impervious Fraction	I_f =	0.85

Calculate the composite Runoff Coefficient, C for the BMP Tributary Area

Use the following equation based on the WEF/ASCE Method

$C = 0.858I_f^3 - 0.78I_f^2 + 0.774I_f + 0.04$ C = 0.66

Determine Design Storage Volume, V_{BMP}

Calculate V_U, the 85% Unit Storage Volume $V_U = D_{85} \times C$ V_u = 0.40 (in*ac)/ac

Calculate the design storage volume of the BMP, V_{BMP}.

$$V_{BMP}\ (ft^3) = \frac{V_U\ (in\text{-}ac/ac) \times A_T\ (ac) \times 43{,}560\ (ft^2/ac)}{12\ (in/ft)}$$

V_{BMP} = 6,006 ft^3

Notes:

Santa Margarita Watershed

BMP Design Volume, V_{BMP} (Rev. 03-2012)

Legend: Required Entries / Calculated Cells

(Note this worksheet shall **only** be used in conjunction with BMP designs from the **LID BMP Design Handbook**)

Company Name	EXCEL ENGINEERING	Date	5/29/2018
Designed by	Ian Z	County/City Case No	
Company Project Number/Name	17-053		
Drainage Area Number/Name	DMA-B		

Enter the Area Tributary to this Feature A_T = 0.861 acres

85th Percentile, 24-hour Rainfall Depth, from the Isohyetal Map in Handbook Appendix E

Site Location

Township 07S

Range 03W

Section 35

Enter the 85th Percentile, 24-hour Rainfall Depth D_{85} = 0.61

Determine the Effective Impervious Fraction

Type of post-development surface cover (use pull down menu): Mixed Surface Types

Effective Impervious Fraction I_f = 0.85

Calculate the composite Runoff Coefficient, C for the BMP Tributary Area

Use the following equation based on the WEF/ASCE Method

$C = 0.858I_f^3 - 0.78I_f^2 + 0.774I_f + 0.04$ C = 0.66

Determine Design Storage Volume, V_{BMP}

Calculate V_U, the 85% Unit Storage Volume $V_U = D_{85} \times C$ V_u = 0.40 (in*ac)/ac

Calculate the design storage volume of the BMP, V_{BMP}.

$$V_{BMP}\ (ft^3) = \frac{V_U\ (in\text{-}ac/ac) \times A_T\ (ac) \times 43{,}560\ (ft^2/ac)}{12\ (in/ft)}$$

V_{BMP} = 1,254 ft^3

Notes:

Santa Margarita Watershed

BMP Design Volume, V_{BMP} (Rev. 03-2012)

Legend: Required Entries / Calculated Cells

(Note this worksheet shall **only** be used in conjunction with BMP designs from the **LID BMP Design Handbook**)

Company Name	EXCEL ENGINEERING	Date	5/29/2018
Designed by	Ian Z	County/City Case No	
Company Project Number/Name	17-053		
Drainage Area Number/Name	DMA-C		

Enter the Area Tributary to this Feature A_T = 0.207 acres

85th Percentile, 24-hour Rainfall Depth, from the Isohyetal Map in Handbook Appendix E

Site Location

Township 07S

Range 03W

Section 35

Enter the 85th Percentile, 24-hour Rainfall Depth D_{85} = 0.61

Determine the Effective Impervious Fraction

Type of post-development surface cover (use pull down menu): Mixed Surface Types

Effective Impervious Fraction I_f = 0.85

Calculate the composite Runoff Coefficient, C for the BMP Tributary Area

Use the following equation based on the WEF/ASCE Method

$C = 0.858I_f^3 - 0.78I_f^2 + 0.774I_f + 0.04$ C = 0.66

Determine Design Storage Volume, V_{BMP}

Calculate V_U, the 85% Unit Storage Volume $V_U = D_{85} \times C$ V_u = 0.40 (in*ac)/ac

Calculate the design storage volume of the BMP, V_{BMP}.

$$V_{BMP}\ (ft^3) = \frac{V_U\ (in\text{-}ac/ac) \times A_T\ (ac) \times 43{,}560\ (ft^2/ac)}{12\ (in/ft)}$$

V_{BMP} = 302 ft^3

Notes:

Santa Margarita Watershed

BMP Design Volume, V_{BMP} (Rev. 03-2012)

Legend: Required Entries / Calculated Cells

(Note this worksheet shall **only** be used in conjunction with BMP designs from the **LID BMP Design Handbook**)

Company Name	EXCEL ENGINEERING	Date	5/29/2018
Designed by	Ian Z	County/City Case No	
Company Project Number/Name	17-053		
Drainage Area Number/Name	DMA-D		

Enter the Area Tributary to this Feature A_T = 0.815 acres

85th Percentile, 24-hour Rainfall Depth, from the Isohyetal Map in Handbook Appendix E

Site Location

Township 07S

Range 03W

Section 35

Enter the 85th Percentile, 24-hour Rainfall Depth D_{85} = 0.61

Determine the Effective Impervious Fraction

Type of post-development surface cover (use pull down menu): Mixed Surface Types

Effective Impervious Fraction I_f = 0.85

Calculate the composite Runoff Coefficient, C for the BMP Tributary Area

Use the following equation based on the WEF/ASCE Method

$C = 0.858I_f^3 - 0.78I_f^2 + 0.774I_f + 0.04$

C = 0.66

Determine Design Storage Volume, V_{BMP}

Calculate V_U, the 85% Unit Storage Volume $V_U = D_{85} \times C$

V_u = 0.40 (in*ac)/ac

Calculate the design storage volume of the BMP, V_{BMP}.

$$V_{BMP}\ (ft^3) = \frac{V_U\ (in\text{-}ac/ac) \times A_T\ (ac) \times 43{,}560\ (ft^2/ac)}{12\ (in/ft)}$$

V_{BMP} = 1,186 ft^3

Notes:

Santa Margarita Watershed

BMP Design Volume, V_{BMP} (Rev. 03-2012)

Legend: Required Entries / Calculated Cells

(Note this worksheet shall **only** be used in conjunction with BMP designs from the **LID BMP Design Handbook**)

Company Name	EXCEL ENGINEERING	Date	5/29/2018
Designed by	Ian Z	County/City Case No	
Company Project Number/Name	17-053		
Drainage Area Number/Name	DMA-G		

Enter the Area Tributary to this Feature A_T = 0.218 acres

85th Percentile, 24-hour Rainfall Depth, from the Isohyetal Map in Handbook Appendix E

Site Location	Township	07S
	Range	03W
	Section	35
Enter the 85th Percentile, 24-hour Rainfall Depth	D_{85} =	0.61

Determine the Effective Impervious Fraction

Type of post-development surface cover (use pull down menu)		Mixed Surface Types
Effective Impervious Fraction	I_f =	0.85

Calculate the composite Runoff Coefficient, C for the BMP Tributary Area

Use the following equation based on the WEF/ASCE Method

$C = 0.858I_f^3 - 0.78I_f^2 + 0.774I_f + 0.04$ C = 0.66

Determine Design Storage Volume, V_{BMP}

Calculate V_U, the 85% Unit Storage Volume $V_U = D_{85} \times C$ V_u = 0.40 (in*ac)/ac

Calculate the design storage volume of the BMP, V_{BMP}.

$$V_{BMP}\ (ft^3) = \frac{V_U\ (in\text{-}ac/ac) \times A_T\ (ac) \times 43{,}560\ (ft^2/ac)}{12\ (in/ft)}$$

V_{BMP} = 317 ft^3

Notes:

DMA Type/ID	DMA (square feet)	Post-Project Surface Type	Effective Impervious Fraction, I_f	DMA Runoff Factor, C	Dma Areas * Runoff Factor	BMP Name/ID	Design Storm Depth (in)	DCV, V_{BMP} (ft^3)	Proposed Volume on Plans (ft^3)
	[A]		[B]	[C]	[A]*[C]				
A	179743	Mixed	0.85	0.66	118156	1	0.61	6006	6811
B	37522	Mixed	0.85	0.66	24665	2	0.61	1254	5083
C	9024	Mixed	0.85	0.66	5932	3	0.61	302	395
D	35499	Mixed	0.85	0.66	23336	4	0.61	1186	1207
E	6068	Mixed	0.85	0.66	3989	6	0.61	203	302
F	6077	Landscape	0.10	0.11	671				0
G	9474	Mixed	0.85	0.66	6228	5	0.61	317	302
H	4264	Landscape	0.10	0.11	471				#REF!
Totals=	287672				176077	**Totals=**	0.61	8951	

BMP Name/ID	DMA NO.	BMP Type/ Description	Design Capture Volume (ft^3)	Proposed Volume (ft^3)
1	A	Bioretention	6006	6811
2	B	Bioretention	1254	5083
3	C	Bioretention	302	395
4	D	Bioretention	1186	1207
5	G	Bioretention	317	302
6	E	Treewells	N/A	

A_{BMP} (ft^2) [Bioretention]	2804.47	585.44	140.80	553.88	147.83

DMA Type/ID	Landscape Area	Impervious Area
A	30556	149187
B	6379	31143
C	1534	7490
D	6035	29464
E	1032	5036
F	6077	0
G	1611	7864
H	4264	0

BIOFILTRATION WITH PARTIAL INFILTRATION					
	DMA TYPE/ID				
	A	B	C	D	G
BMP Name/ID	1	2	3	4	5
A_T (ft^2)	179743.03	37521.57	9023.80	35499.15	9474.46
V_{BMP} (ft^3)	6006.2457	1253.8109	301.54	1186.23	316.60
A_{BMP} (ft^2)	6811.00	5083.00	395.00	1207.00	302.00
d_g (ft)	1.50	1.50	1.50	1.50	1.50
$V_{retained}$ (ft^3)	4086.6	3049.8	237	724.2	181.2
$V_{not\ reliably\ retained}$ (ft^3)	1919.65	-1795.99	64.54	462.03	135.40
d_s (ft)	2.00	2.00	2.00	2.00	2.00
d_p (ft)	0.50	0.50	0.50	0.50	0.50
I_{design} (in/hr)	2.5	2.5	2.5	2.5	2.5
$T_{routing}$ (hr)	5	5	5	5	5
d_{e_bio} (ft)	2.14	2.14	2.14	2.14	2.14
$d_{e_bio_static}$ (ft)	1.10	1.10	1.10	1.10	1.10
$V_{biofiltered}$ (ft^3)	14586.89	10886.09	845.96	2584.99	646.78
$V_{biofiltered_static}$ (ft^3)	7492.10	5591.30	434.50	1327.70	332.20
Criteria 1: $V_{biofiltered}$ > 150% of $V_{not\ reliably\ retained}$	Pass	Pass	Pass	Pass	Pass
Criteria 2: $V_{biofiltered_static}$ > 0.75 * $V_{not\ reliably\ retained}$	Pass	Pass	Pass	Pass	Pass
Side Slopes	z= 4:1	z= 4:1	z= 4:1	z= 4:1	z= 4:1
Diameter of Underdrain (in)	6.00	6.00	6.00	6.00	6.00
Longitudinal Slope of Site (%)	0.00	0.00	0.00	0.00	0.00
6" Check Dam Spacing (ft)	0.00	0.00	0.00	0.00	0.00
Describe Vegetation	Other	Other	Other	Other	Other

BIOFILTRATION WITH NO INFILTRATION					
	DMA TYPE/ID				
	A	B	C	D	G
BMP Name/ID	1	2	3	4	5
A_T (ft^2)	175677.48	40249.44	21997.80	32112.43	8067.31
V_{BMP} (ft^3)	6006.25	1253.81	301.54	1186.23	202.77
A_{BMP} (ft^2)	6811.00	5083.00	395.00	1207.00	302.00
d_s (ft)	2.00	2.00	2.00	2.00	2.00
d_p (ft)	0.50	0.50	0.50	0.50	0.50
I_{design} (in/hr)	2.5	2.5	2.5	2.5	2.5
$T_{routing}$ (hr)	5	5	5	5	5
d_{e_bio} (ft)	2.14	2.14	2.14	2.14	2.14
$d_{e_bio_static}$ (ft)	1.10	1.10	1.10	1.10	1.10
$V_{biofiltered}$ (ft^3)	14586.89	10886.09	845.96	2584.99	646.78
$V_{biofiltered_static}$ (ft^3)	7492.10	5591.30	434.50	1327.70	332.20
Criteria 1: $V_{biofiltered}$ > 150% of V_{BMP}	Pass	Pass	Pass	Pass	Pass
Criteria 2: $V_{biofiltered_static}$ > 0.75 * V_{BMP}	Pass	Pass	Pass	Pass	Pass
Side Slopes	z= 4:1	z= 4:1	z= 4:1	z= 4:1	z= 4:1
Diameter of Underdrain (in)	6.00	6.00	6.00	6.00	6.00
Longitudinal Slope of Site (%)	0.00	0.00	0.00	0.00	0.00
6" Check Dam Spacing (ft)	0.00	0.00	0.00	0.00	0.00
Describe Vegetation	Other	Other	Other	Other	Other

Biofiltration with No Infiltration Facility - Design Procedure	BMP ID: BMP-1	Legend:	Required Entries / Calculated Cells

Company Name: EXCEL ENGINEERING Date: 8/2/2018

Designed by: Kevin A County/City Case No.:

Design Volume

Enter the area tributary to this feature	A_T =	4.1263	acres
Enter V_{BMP} determined from Section 2.1 of this Handbook *	V_{BMP} =	6,006	ft^3
Enter initial estimate of footprint of BMP, $Area_{BMP}$ (Guidance: A reasonable starting point is 3% of the tributary impervious area)**	$Area_{BMP}$ =	6,811	ft^2

Note: This area shall be measured at the mid-ponding depth of the BMP. For systems with side-slopes, this should be the countour that is midway between the floor of the basin and the maximum water quality ponding elevation of the basin. The underlying gravel layer (infiltration storage layer) should extend to the contour. For systems with vertical walls the effective area is the full footprint.

Biofiltration with Partial Retention Facility Surface Area

Depth of Surface Ponding Layer (6" minimum, 12" maximum)	d_p =	6	inches
Depth of Engineered Soil Media (24" to 36"; 18" if vertically constrained)	d_s =	24	inches
Design Media Filtration Rate (2.5in/hr)	I_{design} =	2.5	in/hr
Allowable Routing Period, $T_{routing}$ (5 hrs)	$T_{routing}$ =	5	hr
Effective Biofiltration Depth, d_{E_bio}			
d_{E_bio} (ft) = (d_p + (0.3 x d_s) + (I_{design} * $T_{routing}$)) (ft)	d_{E_bio} =	2.14	ft
Effective Static Depth, $d_{E_bio_static}$			
$d_{E_bio_static}$ = (d_p + (0.3 * d_s)) (ft)	$d_{E_bio_static}$ =	1.10	ft
$V_{biofiltered}$ = d_{E_bio} * $Area_{BMP}$	$V_{biofiltered}$ =	14,587	ft^3
$V_{biofiltered_static}$ = $d_{E_bio_static}$ * $Area_{BMP}$	$V_{biofiltered_static}$ =	7,492	ft^3

Sizing Option 1 Result

Criteria 1: $V_{biofiltered\ (with\ routing)}$ > 150% of V_{BMP} Results: PASS

Sizing Option 1 Result

Criteria 2: $V_{biofiltered_static}$ > 0.75 x V_{BMP} Results: PASS

Note

If neither of these criteria are met, increase the footprint and rerun the calculations. This calculation is inherently iterative.

Biofiltration with Partial Retention Facility Properties

Side Slopes in Partial Retention with Biofiltration Facility	z =	4	: 1
Diameter of Underdrain		6	inches
Longitudinal Slope of Site (3% maximum)		0	%
Check Dam Spacing		0	feet
Describe Vegetation:		Other	

Notes:

Biofiltration with No Infiltration Facility - Design Procedure	BMP ID: BMP-2	Legend:	Required Entries / Calculated Cells

Company Name:	EXCEL ENGINEERING	Date:	8/2/2018
Designed by:	Kevin A	County/City Case No.:	

Design Volume

Enter the area tributary to this feature	A_T =	0.8614	acres
Enter V_{BMP} determined from Section 2.1 of this Handbook *	V_{BMP} =	1,254	ft^3
Enter initial estimate of footprint of BMP, $Area_{BMP}$ (Guidance: A reasonable starting point is 3% of the tributary impervious area)**	$Area_{BMP}$ =	5,083	ft^2

Note: This area shall be measured at the mid-ponding depth of the BMP. For systems with side-slopes, this should be the countour that is midway between the floor of the basin and the maximum water quality ponding elevation of the basin. The underlying gravel layer (infiltration storage layer) should extend to the contour. For systems with vertical walls the effective area is the full footprint.

Biofiltration with Partial Retention Facility Surface Area

Depth of Surface Ponding Layer (6" minimum, 12" maximum)	d_p =	8	inches
Depth of Engineered Soil Media (24" to 36"; 18" if vertically constrained)	d_s =	18	inches
Design Media Filtration Rate (2.5in/hr)	I_{design} =	2.5	in/hr
Allowable Routing Period, $T_{routing}$ (5 hrs)	$T_{routing}$ =	5	hr
Effective Biofiltration Depth, d_{E_bio}			
d_{E_bio} (ft) = (d_p + (0.3 x d_s) + (I_{design} * $T_{routing}$)) (ft)	d_{E_bio} =	2.16	ft
Effective Static Depth, $d_{E_bio_static}$			
$d_{E_bio_static}$ = (d_p + (0.3 * d_s)) (ft)	$d_{E_bio_static}$ =	1.12	ft
$V_{biofiltered}$ = d_{E_bio} * $Area_{BMP}$	$V_{biofiltered}$ =	10,971	ft^3
$V_{biofiltered_static}$ = $d_{E_bio_static}$ * $Area_{BMP}$	$V_{biofiltered_static}$ =	5,676	ft^3

Sizing Option 1 Result

Criteria 1: $V_{biofiltered\ (with\ routing)}$ > 150% of V_{BMP} — Results: PASS

Sizing Option 1 Result

Criteria 2: $V_{biofiltered_static}$ > 0.75 x V_{BMP} — Results: PASS

Note

If neither of these criteria are met, increase the footprint and rerun the calculations. This calculation is inherently iterative.

Biofiltration with Partial Retention Facility Properties

Side Slopes in Partial Retention with Biofiltration Facility	z =	4	: 1
Diameter of Underdrain		6	inches
Longitudinal Slope of Site (3% maximum)		0	%
Check Dam Spacing		0	feet
Describe Vegetation:		Other	

Notes:

Biofiltration with No Infiltration Facility - Design Procedure	BMP ID: BMP-3	Legend:	Required Entries / Calculated Cells

Company Name: EXCEL ENGINEERING Date: 8/2/2018

Designed by: Kevin A County/City Case No.:

Design Volume

Enter the area tributary to this feature	A_T =	0.2072	acres
Enter V_{BMP} determined from Section 2.1 of this Handbook *	V_{BMP} =	302	ft^3
Enter initial estimate of footprint of BMP, $Area_{BMP}$ (Guidance: A reasonable starting point is 3% of the tributary impervious area) **	$Area_{BMP}$ =	395	ft^2

Note: This area shall be measured at the mid-ponding depth of the BMP. For systems with side-slopes, this should be the countour that is midway between the floor of the basin and the maximum water quality ponding elevation of the basin. The underlying gravel layer (infiltration storage layer) should extend to the contour. For systems with vertical walls the effective area is the full footprint.

Biofiltration with Partial Retention Facility Surface Area

Depth of Surface Ponding Layer (6" minimum, 12" maximum)	d_p =	6	inches
Depth of Engineered Soil Media (24" to 36"; 18" if vertically constrained)	d_s =	24	inches
Design Media Filtration Rate (2.5in/hr)	I_{design} =	2.5	in/hr
Allowable Routing Period, $T_{routing}$ (5 hrs)	$T_{routing}$ =	5	hr
Effective Biofiltration Depth, d_{E_bio} d_{E_bio} (ft) = (d_p + (0.3 x d_s) + (I_{design} * $T_{routing}$)) (ft)	d_{E_bio} =	2.14	ft
Effective Static Depth, $d_{E_bio_static}$ $d_{E_bio_static}$ = (d_p + (0.3 * d_s)) (ft)	$d_{E_bio_static}$ =	1.10	ft
$V_{biofiltered}$ = d_{E_bio} * $Area_{BMP}$	$V_{biofiltered}$ =	846	ft^3
$V_{biofiltered_static}$ = $d_{E_bio_static}$ * $Area_{BMP}$	$V_{biofiltered_static}$ =	435	ft^3

Sizing Option 1 Result

Criteria 1: $V_{biofiltered\ (with\ routing)}$ > 150% of V_{BMP} Results: PASS

Sizing Option 1 Result

Criteria 2: $V_{biofiltered_static}$ > 0.75 x V_{BMP} Results: PASS

Note

If neither of these criteria are met, increase the footprint and rerun the calculations. This calculation is inherently iterative.

Biofiltration with Partial Retention Facility Properties

Side Slopes in Partial Retention with Biofiltration Facility	z =	4	: 1
Diameter of Underdrain		6	inches
Longitudinal Slope of Site (3% maximum)		0	%
Check Dam Spacing		0	feet

Describe Vegetation: Other

Notes:

Biofiltration with No Infiltration Facility - Design Procedure	BMP ID: BMP-4	Legend:	Required Entries / Calculated Cells

Company Name: EXCEL ENGINEERING | Date: 8/2/2018

Designed by: Kevin A | County/City Case No.:

Design Volume

Enter the area tributary to this feature	A_T =	0.8149	acres
Enter V_{BMP} determined from Section 2.1 of this Handbook *	V_{BMP} =	1,186	ft^3
Enter initial estimate of footprint of BMP, $Area_{BMP}$ (Guidance: A reasonable starting point is 3% of the tributary impervious area)**	$Area_{BMP}$ =	1,207	ft^2

Note: This area shall be measured at the mid-ponding depth of the BMP. For systems with side-slopes, this should be the countour that is midway between the floor of the basin and the maximum water quality ponding elevation of the basin. The underlying gravel layer (infiltration storage layer) should extend to the contour. For systems with vertical walls the effective area is the full footprint.

Biofiltration with Partial Retention Facility Surface Area

Depth of Surface Ponding Layer (6" minimum, 12" maximum)	d_p =	6	inches
Depth of Engineered Soil Media (24" to 36"; 18" if vertically constrained)	d_s =	24	inches
Design Media Filtration Rate (2.5in/hr)	I_{design} =	2.5	in/hr
Allowable Routing Period, $T_{routing}$ (5 hrs)	$T_{routing}$ =	5	hr
Effective Biofiltration Depth, d_{E_bio}			
d_{E_bio} (ft) = (d_p + (0.3 x d_s) + (I_{design} * $T_{routing}$)) (ft)	d_{E_bio} =	2.14	ft
Effective Static Depth, $d_{E_bio_static}$			
$d_{E_bio_static}$ = (d_p + (0.3 * d_s)) (ft)	$d_{E_bio_static}$ =	1.10	ft
$V_{biofiltered}$ = d_{E_bio} * $Area_{BMP}$	$V_{biofiltered}$ =	2,585	ft^3
$V_{biofiltered_static}$ = $d_{E_bio_static}$ * $Area_{BMP}$	$V_{biofiltered_static}$ =	1,328	ft^3

Sizing Option 1 Result

Criteria 1: $V_{biofiltered\ (with\ routing)}$ > 150% of V_{BMP} — Results: PASS

Sizing Option 1 Result

Criteria 2: $V_{biofiltered_static}$ > 0.75 x V_{BMP} — Results: PASS

Note

If neither of these criteria are met, increase the footprint and rerun the calculations. This calculation is inherently iterative.

Biofiltration with Partial Retention Facility Properties

Side Slopes in Partial Retention with Biofiltration Facility	z =	4	: 1
Diameter of Underdrain		6	inches
Longitudinal Slope of Site (3% maximum)		0	%
Check Dam Spacing		0	feet
Describe Vegetation:		Other	

Notes:

Biofiltration with No Infiltration Facility - Design Procedure	BMP ID: BMP-5	Legend:	Required Entries / Calculated Cells

Company Name:	EXCEL ENGINEERING	Date:	8/2/2018
Designed by:	Kevin A	County/City Case No.:	

Design Volume

Enter the area tributary to this feature	A_T =	0.2175	acres
Enter V_{BMP} determined from Section 2.1 of this Handbook *	V_{BMP} =	353	ft^3
Enter initial estimate of footprint of BMP, $Area_{BMP}$ (Guidance: A reasonable starting point is 3% of the tributary impervious area)**	$Area_{BMP}$ =	302	ft^2

Note: This area shall be measured at the mid-ponding depth of the BMP. For systems with side-slopes, this should be the countour that is midway between the floor of the basin and the maximum water quality ponding elevation of the basin. The underlying gravel layer (infiltration storage layer) should extend to the contour. For systems with vertical walls the effective area is the full footprint.

Biofiltration with Partial Retention Facility Surface Area

Depth of Surface Ponding Layer (6" minimum, 12" maximum)	d_p =	6	inches
Depth of Engineered Soil Media (24" to 36"; 18" if vertically constrained)	d_s =	24	inches
Design Media Filtration Rate (2.5in/hr)	I_{design} =	2.5	in/hr
Allowable Routing Period, $T_{routing}$ (5 hrs)	$T_{routing}$ =	5	hr
Effective Biofiltration Depth, d_{E_bio} d_{E_bio} (ft) = (d_p + (0.3 x d_s) + (I_{design} * $T_{routing}$)) (ft)	d_{E_bio} =	2.14	ft
Effective Static Depth, $d_{E_bio_static}$ $d_{E_bio_static}$ = (d_p + (0.3 * d_s)) (ft)	$d_{E_bio_static}$ =	1.10	ft
$V_{biofiltered}$ = d_{E_bio} * $Area_{BMP}$	$V_{biofiltered}$ =	647	ft^3
$V_{biofiltered_static}$ = $d_{E_bio_static}$ * $Area_{BMP}$	$V_{biofiltered_static}$ =	332	ft^3

Sizing Option 1 Result

Criteria 1: $V_{biofiltered\ (with\ routing)}$ > 150% of V_{BMP} — Results: PASS

Sizing Option 1 Result

Criteria 2: $V_{biofiltered_static}$ > 0.75 x V_{BMP} — Results: PASS

Note

If neither of these criteria are met, increase the footprint and rerun the calculations. This calculation is inherently iterative.

Biofiltration with Partial Retention Facility Properties

Side Slopes in Partial Retention with Biofiltration Facility	z =	4	: 1
Diameter of Underdrain		6	inches
Longitudinal Slope of Site (3% maximum)		0	%
Check Dam Spacing		0	feet
Describe Vegetation:	Other		

Notes:

R 07 W | R 06 W | R 05 W | R 04 W | R 03 W | R 02 W | R 01 W | R 01 E | R 02 E | R 03 E | R 04 E | R 05 E

T 01 S
T 02 S
T 03 S
T 04 S
T 05 S
T 06 S
T 07 S
T 08 S

0.85 MiraLoma
0.61 RiversideNorth
0.54 RiversideSouth
0.68 PigeonPass
0.66 MorenoEast
0.85 Beaumont
0.88 PradoDam
0.51 Woodcrest
0.50 LakeMathews
0.68 PerrisReservoir
0.87 VistaGrandeGS
0.70 SanJacintoNWS
1.18 Idyllwild
0.58 SunCity
0.68 Winchester
0.70 ElsinoreNWS
1.11 ElCarisoStation
0.90 HurkeyCreek
0.77 WildomarLaCresta
0.52 SkinnerLake
0.65 Anza
0.77 SantaRosaPlateau
1.00 TemeculaNWS
0.64 AguangaValley

Santa Ana River Watershed
Santa Margarita Watershed

D85TH =0.61 INCH

Rain Gage Locations

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

Isohyetal Map for the 85th Percentile 24 hour Storm Event

July 2011

Appendix 7: Hydromodification

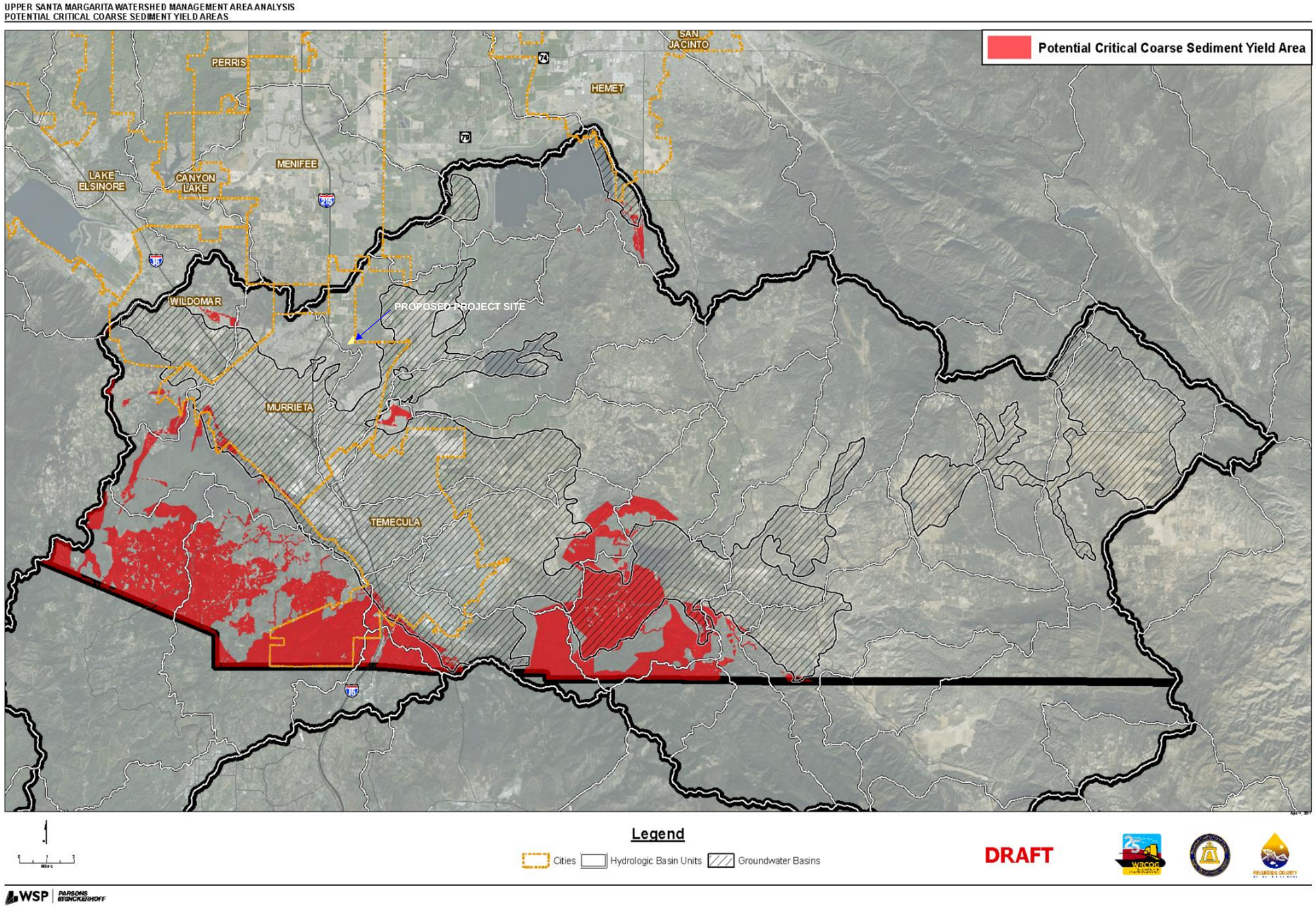
Supporting Detail Relating to compliance with the Hydromodification Performance Standards

Examples of material to provide in Appendix 7 may include but are not limited to the following:

- Hydromodification Exemption Exhibit,
- Potential Critical Coarse Sediment Yield Area Mapping
- Hydromodification BMP sizing calculations,
- SMRHM report files,
- Site-Specific Critical Coarse Sediment Analysis,
- Design details/drawings from manufacturers for proprietary BMPs

This information should support the hydromodification exemption (if applicable) and hydrologic control BMP and Sediment Supply BMP sections of this Template. Refer to Section 2.4 and 3.6 of the SMR WQMP and Sections E of this Template.

Potential Critical Coarse Sediment Yield Areas



SECTION I - **Introduction**

This report provides Hydromodification analysis for a project located on the northeast corner of Clinton Keith Road and Antelope Road, Murrieta, California. The project proposes a business center with retail buildings such as stores, gas stations, a hotel, and restaurants. The current grading plans calls for three parcels to be graded to final pads and parking lots to subgrade. The remainder of the site is mass graded approximate final grades. However, this report provides analysis for a complete site buildout for future development based on the approved site plan.

Hydromodification calculations are performed utilizing continuous simulation analysis to determine the flow duration for the flow rates that fall within the geomorphologically significant flows[1]. Storm Water Management Model (SWMM) version 5.1 distributed by USEPA is the basis of all calculations within this report. SWMM generates peak flow recurrence frequencies and flow duration series statistics based on an assigned rain gauge for pre-development, unmitigated and mitigated flows to determine compliance with the Santa Margarita Region Hydromodification Management Plan (SMR HMP) in response to Provision F.1.h of the 2010 SMR Municipal Separate Storm Sewer System (MS4) Permit (order R9-2010-0016). The rain gauge station 048844 in Temecula California is utilized for this project to determine the historical rain data for continuous simulation in SWMM.

The analysis of this project requires only one Point-Of-Compliance (POC) and is referred to as POC-1 for both pre-development and mitigated post-development conditions. Tributary areas to POC-1 are labeled Basins in the pre-developed conditions and as DMA (Drainage Management Area) in the post-developed conditions. A distinction is made between private and public tributary areas in the post-development conditions. DMAs that are within privately owned areas of the project are labeled with numbers while DMAs within the public right-of-way are labeled with letters.

Pre-development conditions contain 10 Basins labeled A to H while the post-development conditions contain 8 DMAs labeled A to H. The total tributary within the project is approximately 6.71 acres.

The Hydromodification and Water Quality systems proposed for this project is bioretention basin located throughout the project development. Detention pipe with flow control orifices are utilized as hydromodification tool. The systems are designed to capture and detain storm runoff on the surface and filter through a soil mix to a gravel storage area below the surface. The runoff is then conveyed through an underground pipe network to an existing open channel which currently collects the sites storm flows. The resulting mitigated outflows are shown to be equal to, less than the pre-developed outflows or within the 10% tolerance.

Low Flow Threshold

A low flow threshold of 10% of 2-year storm event (0.1Q2) was used for this analysis. This low flow threshold will be used to meet peak flow frequency and flow duration controls. No downstream channel assessment was done.

[1] Geomorphically significant flows are defined as the rate of storm water runoff flow causes erosive conditions. For this study, these flows occur during the 10% of 2-year, 2-year, 5-year and 10-year flows.

SECTION II - **SWMM MODEL SETUP**

SWMM provides continuous precipitation based on historical rain gauge data onto a sub-catchment. A model for both pre-developed and post-developed conditions is then developed to analyze the amount and frequency of runoff due to surface conditions. The resulting data for both the pre-developed and post-developed conditions are then compared to determine the impact of runoff to the project due to the development of the site.

Pre-development Model Setup
The pre-development areas are divided into five basins delineated based on the soil types and hydrology features. Site delineation can be found in Figure-2 on the next page.

For the purpose of this study, the site is assumed to have 0% of impervious surface area. The site is a natural vacant land. Viewing historical aerials of the site, it is determined that the site had land coverage of a rough bare packed soil. Giving the site characteristics, a manning's value of 0.038 is used.

Post-Development Model Setup
The post-development areas are divided into 6 DMAs (Drainage Management Areas) based on topography, soil type and hydraulic systems. Figure 3 (on the next page) shows the delineation of each DMA.

Bioretention sections are similar in configuration as seen in figure-1 below. The bottom elevation for each is assumed at 0 ft within the LID editor. The variations of the two systems consist of the minimum width that each is constructed to. Figure-1 below demonstrates a 6' minimum width for bioretention basins. The bioretention basins utilize the BMP manual's default value of 5 in/hr for surface infiltration rates follow SWMM's default values listed in the help file under "Soil Characteristics".

The assumed manning's number for the post-developed conditions is based off of well-maintained landscape areas with medium trees and shrubs. Thus, an N-value of 0.1 is used for this analysis.

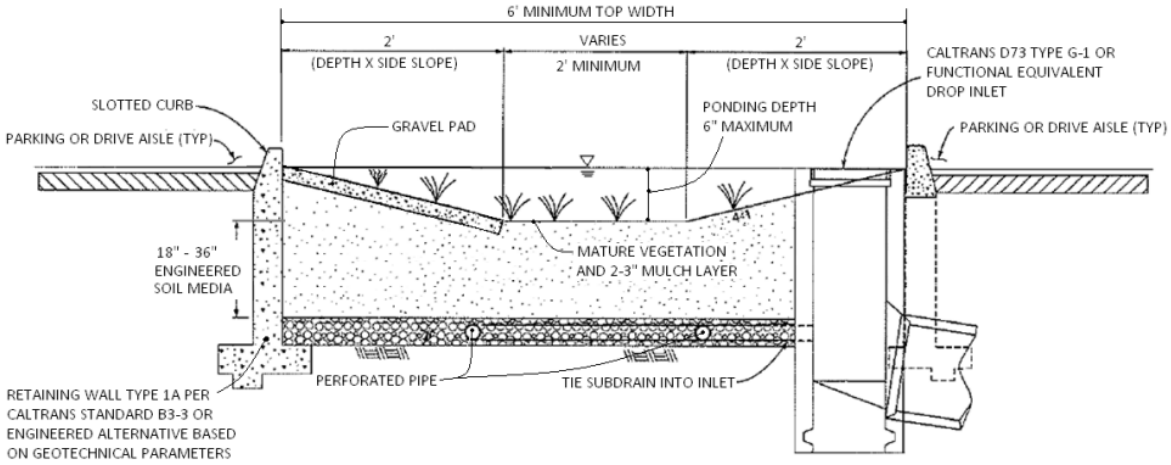


Figure-1. Bioretention (BMP-1~15) Section

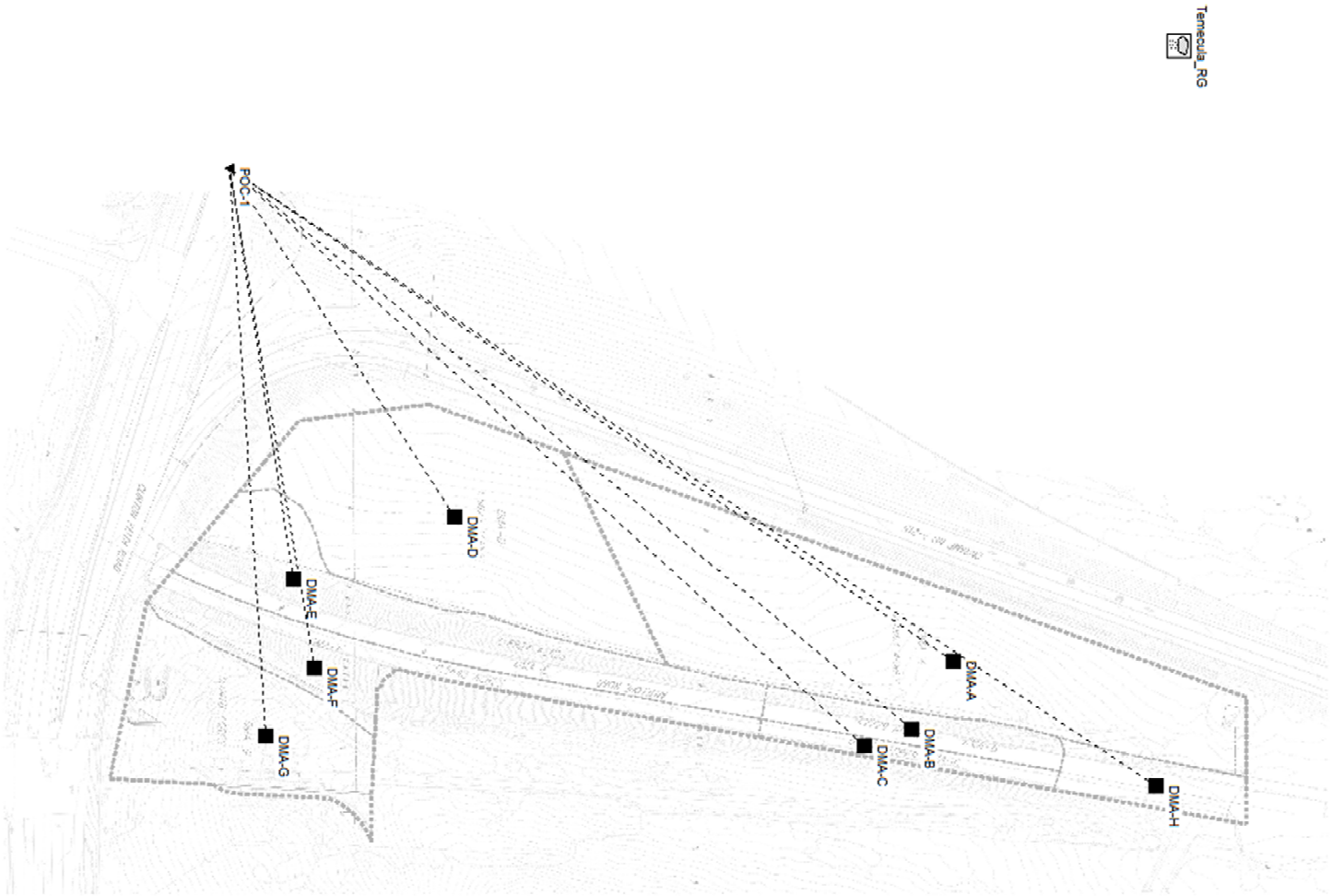


Figure-2. Pre-Development of SWMM continuous model
(See Attachment I for more detail)

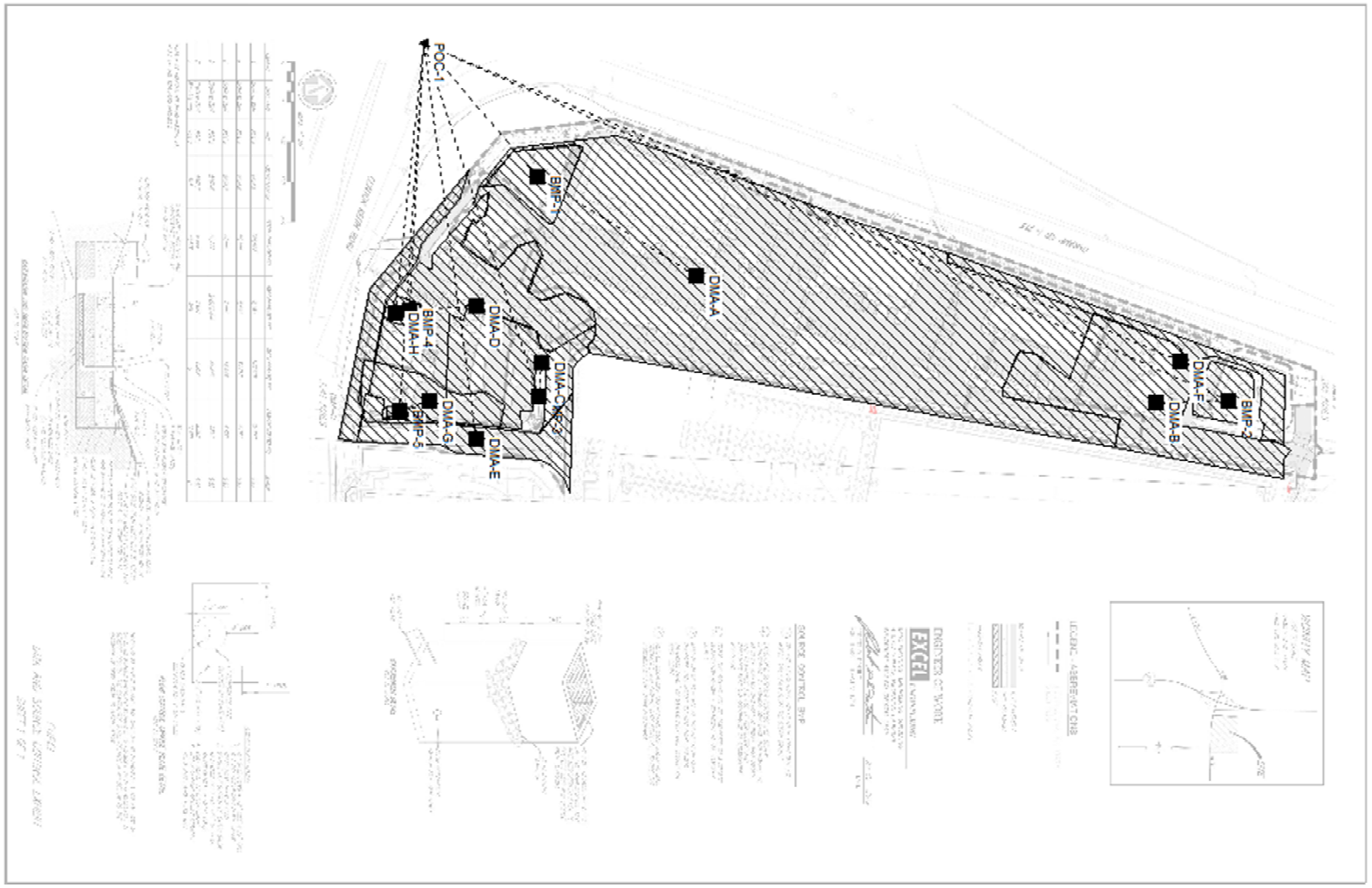


Figure-3. Mitigated Post-Development of SWMM continuous model
(See Attachment I for more detail)

Pre-Development Basin Areas & Post-Development (DMAs)

Basin areas and DMAs provide an important framework for feasibility screening, BMP prioritization and storm water management system configuration. Both Basin Areas and DMAs are defined based on drainage patterns of the site and the BMPs to which they drain. Below is a summarization of Basins and DMAs within this study, excluding any LID area that resides within its boundary:

PRE-DEVELOPMENT SUBCATCHMENT

[SUBCATCHMENTS]				
Name	Outlet	Area	%Imperv	Width
DMA-A	POC-1	2.1863	0	372
DMA-B	POC-1	0.2729	52.8	620
DMA-C	POC-1	0.1505	100	384
DMA-D	POC-1	1.5673	0	416
DMA-E	POC-1	0.8824	31	1040
DMA-F	POC-1	0.5648	49	1297
DMA-G	POC-1	0.8416	0	546
DMA-H	POC-1	0.2428	0	620
	Total	6.7086		

POST-DEVELOPMENT SUBCATCHMENT

[SUBCATCHMENTS]					
Name	Outlet	Area (ac.)	%Imperv	Width	%Slope
BMP-1	POC-1	0.1564	0	159	0.5
BMP-2	POC-1	0.11669	0	127	0.5
BMP-3	POC-1	0.0091	0	32	0.5
DMA-A	BMP-1	3.9699	85	430.5	2.18
DMA-B	BMP-2	0.7447	85	224	1.4
DMA-C	BMP-3	0.1981	85	368	2.75
DMA-D	BMP-4	0.7872	85	190	3.5
DMA-E	POC-1	0.2425	85	209	2.5
DMA-F	POC-1	0.1395	0	57	13
BMP-4	POC-1	0.0277	0	35	0.5
BMP-5	POC-1	0.0069	0	10	0.5
DMA-G	BMP-5	0.2175	85	50	0.5
DMA-H	POC-1	0.0979	0	150	0.5
	Total	6.71409			

SECTION III - **SYSTEM REPRESENTATION**

SWMM is a distributed model, which means that a study area can be subdivided into any number of irregular sub-catchments to best capture the effect that spatial variability in topography, drainage pathways, land cover, and soil characteristics have on runoff generation. For modeling of Hydromodification calculations, there are four main system representations: Rain gage, Sub-catchment (contributing basin or LID area), Nodes and Links.

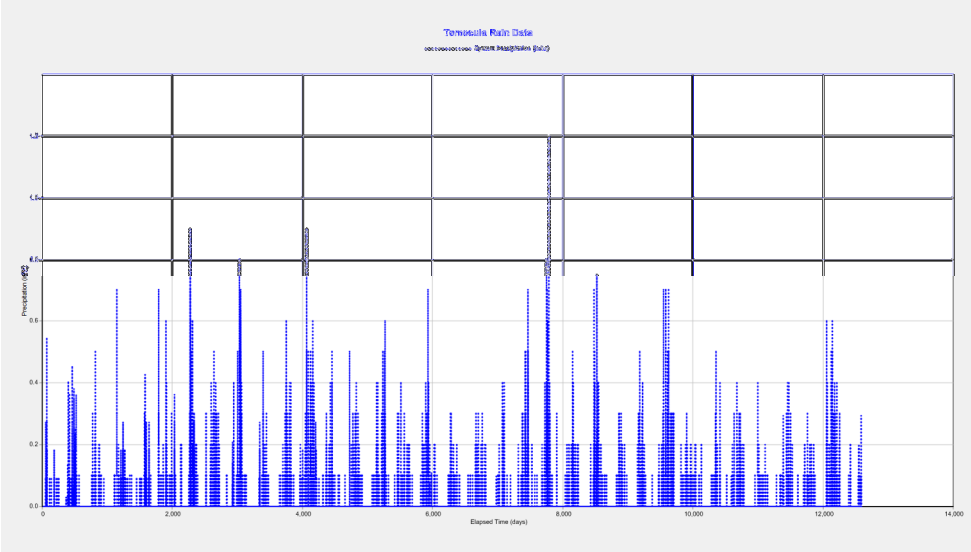


Fig. 4 – Time series rain data, which corresponds to runoff estimates for each of the 10,219 time of the 35-year simulation period. (Inches/hour vs. elapsed time)

Rain Gage

The properties of a rain gage describe the source and format of the precipitation data that are applied to the study area. For this project, the rainfall data used is from rain gauge station 048844 in Temecula California. This rain gauge data was obtain via the EPA program "EPA Storm water Calculator".

The Temecula rain data has 35 years of hourly precipitation data from 10/16/1971 to 03/29/2006 and generates 35 years of hourly runoff estimates, which corresponds to runoff estimates for each of the 10,219 time steps of the 35 year simulation period. See figure 4 for hourly precipitation intensity graph for the 35-year dataset.

Sub-catchment (contributing basin or LID area)

A basin is modeled using a sub-catchment object, which contains some of the following properties:

Rain Gage

The rate of storm water runoff and volume depends directly on the precipitation magnitude and its spatial and temporal distribution over the catchment. Each sub-catchment in SWMM is linked to a rain gage object that describes the format and source of the rainfall input for the sub-catchment.

Area
This area is bounded by the sub-catchment boundary. Its value is determined directly from maps or field surveys of the site or by using SWMM's Auto-length tool when the sub-catchment is drawn to scale on SWMM's study area map. This Project is divided into several sub-catchments based on drainage patterns and its outfall.

Width
The width for each sub-catchment is determined by conceptually creating an idealized representation of the irregular shaped sub-catchment. The idealization is done by utilizing the method found in SWMM Reference Manual, Volume 1, section 3.8.4, equations 3-10 & 3-12.

In brief, the idealized width for a sub-catchment is defined by dividing the sub-catchment into two sections. The dividing line for a sub-catchment is the longest overland flow path for the storm water runoff within the sub-catchment (also known as the main drainage channel). The larger of the two determined sections is divided by the total area to ascertain the skew factor for the idealized shape, per Equation 3-10. The shape factor for the actual water shed is then determined by dividing the total area of the sub-catchment and dividing by the square of the main drainage channel length. The idealized shape factor is then determined by using the derived skew factor and watershed shape factor in Equation 3-12. Lastly, the idealized shape factor is multiplied by the length of the main drainage channel to determine the width used for the sub-catchment. Provided below are the equations found in the SWMM Reference Manual, Volume 1:

$\boldsymbol{Z = A_m/A}$	Skew Factor (Eq. 3-10)
$\boldsymbol{X = A/L^2}$	Watershed Shape Factor
$\boldsymbol{Y = 2X(1.5 - Z)(2K^2 - X)/(2K - 1)}$	Idealized Shape Factor (Eq. 3-12)
$\boldsymbol{W = Y * L}$	Sub-catchment Width

Slope
This is the area-weighted average of slopes within a sub-catchment.

Imperviousness
This is the percentage of sub-catchment area covered by impervious surfaces such as sidewalks and roadways or wherever rainfall cannot infiltrate into the surfaces.

Roughness Coefficient
The roughness coefficient reflects the amount of resistance that overland flow encounters as it runs off of the sub-catchment surface. This is determined from the HEC RAS User Manuel Table 3-1.

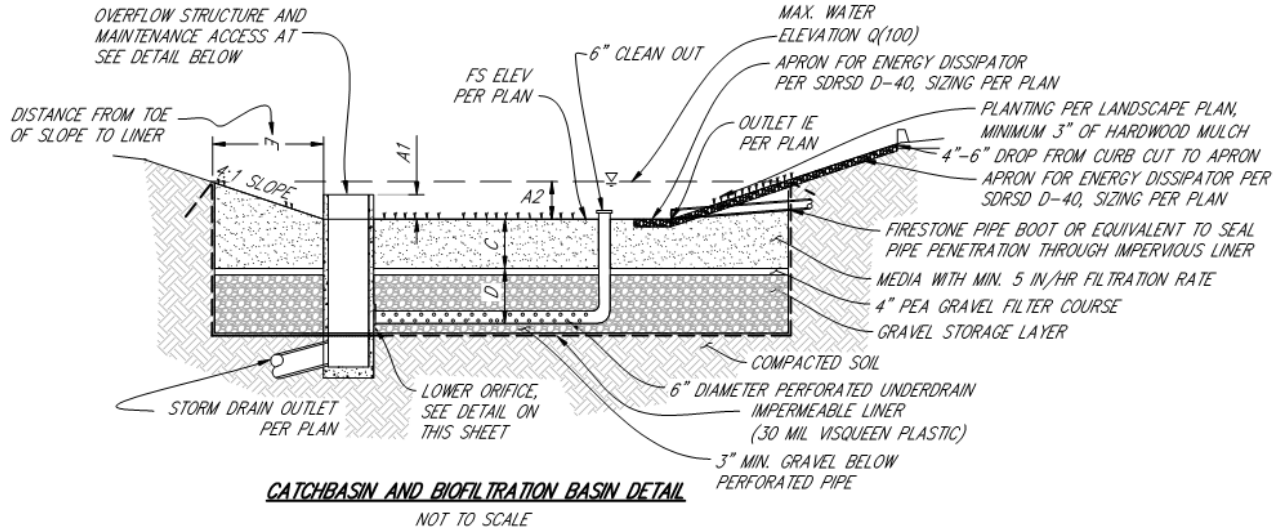
Infiltration Model
The infiltration model used for the proposed project is based on the Green-Ampt infiltration model. Using the results from the web-soil survey the default values for soil types D and C were used.

[2] A default value of 4 is used for 'K', the upper limit on the watershed shape factor

LID controls

LID controls are established to model storm water runoff collection, detention and/or treatment. This project proposes to use bio-retention module, for storm water treatment and runoff collection. This LID type contains an engineered soil mixture placed above a gravel drainage bed. Further discussion can be found in Section IV of this report. Below is a chart denoting each LID used within a sub-catchment:

BIO–BASIN SUMMARY TABLE									
BASIN	TYPE OF BASIN	EFFECTIVE AREA	A1 (INCH) RISER	A2 (INCH) TOP OF BASIN	C (INCH) MEDIA	D (INCH) GRAVEL	E (FEET)	BOX RISER / OVERFLOW STRUCTURE SIZE (INCHES)	ORIFICE DIAMETER (INCHES)
BMP–1	BIOFILTRATION	6811	6	12	24	12	2	36X36	0.938
BMP–2	BIOFILTRATION	5083	8	12	18	12	2	36X36	0.875
BMP–3	BIOFILTRATION	395	6	12	24	18	2	36X36	1.000
BMP–4	BIOFILTRATION	1207	6	12	24	18	2	36X36	1.000
BMP–5	BIOFILTRATION	302	6	12	24	18	2	36X36	1.000



CATCHBASIN AND BIOFILTRATION BASIN DETAIL

NOT TO SCALE

SECTION IV - **CONTINUOUS SIMULATION OPTIONS**

Kinematic Wave Routing Model
This routing method solves the continuity equation along with a simplified form of the momentum equation in each conduit. The latter requires that the slope of the water surface be equal to the slope of the conduit.

The maximum flow that can be conveyed through a conduit is the full normal flow value. Any flow in excess of this value, entering the inlet node, is either lost from the system or can pond atop the inlet node and be re-introduced into the conduit as capacity becomes available.

Kinematic wave routing allows flow and area to vary both spatially and temporally within a conduit. This can result in attenuated and delayed outflow hydrographs as inflow is routed through the channel. However this form of routing cannot account for backwater effects, entrance/exit losses, flow reversal, or pressurized flow, and is also restricted to dendritic network layouts. For this reason, the model does not contain any conduits and utilizes storage nodes for runoff capture and release.

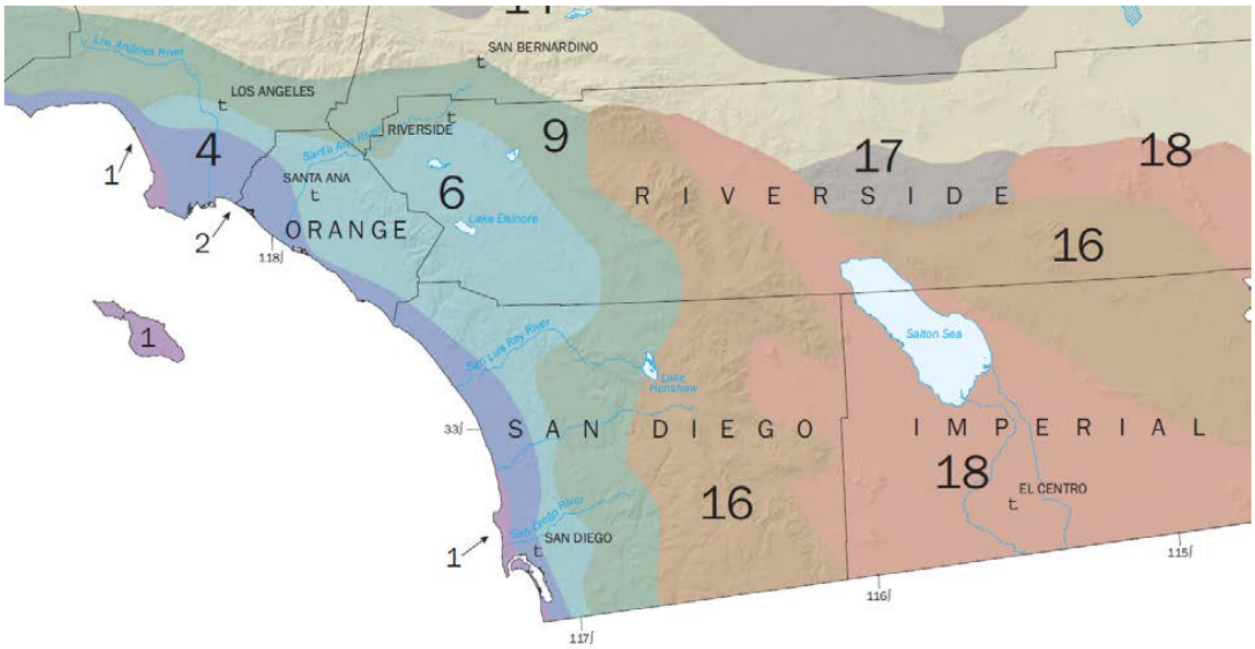
Simulation Dates
These dates determine the starting and ending dates/times of a simulation and are chosen based on the rain data availability within the selected rain gauge.
Start analysis on 10/16/1971
Start Reporting on 10/16/1971
End Analysis on 03/29/2006

Time Steps
Simulation dates are divided into intervals (time steps) at which computations will be analyzed. At each time step SWMM performs runoff computation, routing computation and results reporting. Time steps are specified in days and hours: minutes: seconds, except for flow routing which is entered as decimal seconds.

Climatology
-*Evaporation Data*
The available monthly evaporation data for the project area is obtained from the California Irrigation Management Information System "Reference Evapotranspiration Zones" brochure and map (CIMIS ETo Zone Map), prepared by California Department of Water Resources, dated January 2012. Project site falls in "Zone 6" Upland Central Coast and Los Angeles Basins based on CIMIS ETo Zone map.

Table 2 – Zone 6 Monthly Evaporation data (in/day)

January	February	March	April	May	June
0.060	0.080	0.110	0.160	0.180	0.210
July	August	September	October	November	December
0.210	0.200	0.160	0.120	0.080	0.060



SECTION V - **BIORETENTION LID CONTROL PARAMETERS**

LID controls are represented by a combination of vertical layers whose properties are defined on a per-unit-area basis. This allows an LID of the same design but differing coverage area to easily be placed within different sub-catchments of a study area. During a simulation, SWMM performs a moisture balance that keeps track of how much water moves between and is stored within each LID layer. If the bioretention basin is full and water is leaving the upper weir, the flow is divided in two flows: the lower flow discharging from the bottom orifice directly draining to the point of compliance and the upper flow is routed at the top of the bio-retention basin and after routing, discharged to the point of compliance.

1. Surface

The Surface tab within the LID Control Editor establishes the constraints of the Bioretention LID at the surface. The parameters and default values are described below:

Storage Depth
When confining walls or berms are present, this is the maximum depth to which water can pond above the surface of the unit before overflow occurs (in inches). The surface storage depth for this project is set to the first outlet of the overflow riser. Any additional storage capacity of the Bioretention unit above the berm is modeled as a storage unit to ensure that the full storage depth is routed through the pond and does not contribute to overland flow.

Vegetation Volume Fraction
Vegetation Volume Fraction is the fraction of the volume within the storage depth that is filled with vegetation. This is the volume occupied by stems and leaves, not the surface area

coverage provided by the vegetation. BMPs for this project propose minimal use of vegetation. Therefore, the value of 0 for the vegetation volume fraction is used.

Surface Roughness
Surface roughness is assigned to all DMAs using Manning's n value. LIDs are assigned to a DMA and do not require the addition of a Manning's n value. Therefore, Manning's n value for overland flow over the surface of a vegetative pond is 0 (n=0).

Surface Slope
Bioretentions are designed to detain storm runoff and contain no slope. Thus, surface slope is considered 0 percent.

2. Soil

The Soil tab within the LID Control Editor describes the properties of the engineered soil mixture used within the Bioretention LID. The parameters and default values are described below:

Thickness
The thickness of the soil layer (inches). A typical thickness of a bioretention is 18".

Porosity
The volume of pore spaces relative to the total volume of soil (as a fraction). A maximum porosity value of 0.40 is used for the soil mix to reach an efficient percolation rate.

Field Capacity
The volume of pore water relative to total volume after the soil has been allowed to drain fully (as a fraction). A value of 0.2 is used as no vertical drainage occurs through the soil layer below this value.

Wilting Point
Soil moisture content at which plants cannot survive below this value (as a fraction). We assumed the minimum moisture content within the bioretention soil is 0.1.

Conductivity
Hydraulic conductivity for fully saturated soil. The minimum value for percolation requires a design rate of 5 inches/hour.

Conductivity Slope
Rate at which conductivity decreases with decreasing soil moisture. Typical values range from 5 for sands to 15 for silty clay. The conductivity slope for this project is set to 5 due to the soil mixture design having a very good percolation rate.

Suction Head
The average value of soil capillary suction along the wetting front (inches). This is designed as the suction head for a soil mix after several years of bioretention life span. Utilizing San Diego County's BMP Design Manual, Appendix G.1.5.3.4, Table G.1-7 design parameters for guidance, a suction head value of 1.5 inches was selected.

3. *Storage*

The Storage tab within the LID Control Editor describes the properties of the crushed stone or gravel layer used in bioretention cells as a bottom storage/drainage layer. The parameters and default values are described below:

Height
This parameter is the thickness of the gravel layer (inches). Gravel layer includes gravel and filter course below the engineered soil mixture.

Void Ratio
The volume of void space relative to the volume of solids in the layer (as a fraction). Note, void ratio = porosity / (1 + porosity). Riverside County's design requirement for the gravel storage layer sets the value for porosity at 0.40. Using the void ratio equation, a value of 0.67 is used.

Seepage Rate
The rate at which water infiltrates into the native soil below the layer (in/hour). This is the saturated hydraulic conductivity of the surrounding sub-catchment. Based on percolation test conducted by the soils engineer, the soil type is C and D and the value will be set to zero.

Clogging Factor
Total volume of treated runoff it takes to completely clog the bottom of the layer divided by the void volume of the storage layer. Clogging is ignored due to insignificant seepage rate and is set to zero.

4. *Drain*

The Drain tab within the LID Control Editor describes the properties of an optional undrain system within the storage layer of the LID unit. The parameters presented in this tab are used to determine the rate of flow through the underdrain. The parameter's default values are described below:

Flow Coefficient - C
Determines the restriction of flow on the underdrain orifice. To derive this value see explanation below:

Per SWMM "Drain Advisor":
"The user specifies… volumetric flow rate (per unit area)":

$$\boldsymbol{q = \frac{Q}{A_{lid}}} \qquad \text{Eq. 4.1}$$

Where: q = volumetric flow, $\frac{ft}{sec}$
Q = flow, cfs

A_{lid}= surface area of LID

Per SWMM "LID Control Editor – Drain system":
"The drain coefficient C and exponent n determines the rate of flow through a drain as a function of the height of stored water above the drain's offset. The following equation is used to compute this flow rate (per unit area of the LID unit)":

$$q = C_d h^n \qquad \text{Eq. 4.2}$$

Where:
q = volumetric flow, $\frac{ft}{sec}$
C_d= drain coefficient, unitless
h = ponding height above orifice, in
n = typical value for n is 0.5 (makes drain act like an orifice)

Standard orifice equation:

$$Q = C_o A_o \sqrt{2gh} \qquad \text{Eq. 4.3}$$

Where:
Q = flow, cfs
C_o= orifice coefficient, unitless
A_o= cross-sectional area of orifice, in
h = ponding height above orifice, in
g = gavity, 32.2 $\frac{ft}{sec^2}$

Converting orifice equation into volumetric flow per unit area of LID element:

$$\frac{Q}{A_{lid}} = \frac{C_o A_o \sqrt{2gh}}{A_{lid}} = q \qquad \text{Eq. 4.4}$$

Equations 4.2 and 4.3 are now in similar terms and can be compared:

$$C_d h^{0.5} = \frac{C_o A_o \sqrt{2gh}}{A_{lid}} \qquad \text{Eq. 4.5}$$

The height on both sides of the equation are similar and can be factored out:

$$C_d = C_o \sqrt{2g} \frac{A_o}{A_{lid}} \qquad \text{Eq. 4.6}$$

With an orifice coefficient of 0.6, equation 4.6 yields:

$$C_d = 60046 * \frac{A_o}{A_{lid}} \qquad \text{Eq. 4.7}$$

An example for use of Equation 4.7 can be found in the slotted drain example within the SWMM Drain Advisor (EPA SWMM 5.1 Help/Contents/Reference/Special Dialog Forms/LID

Editors/LID Control Editor/LID Drain System/Drain Advisor). The underdrain coefficient used for each LID within this project is listed below:

Flow Exponent - n
Establishes the underdrain characteristics. The outlets for each bioretention LID are designed to function as an orifice. Thus, the value is set to 0.5, per SWMM Help file.

Offset Height - H_d
Distance from the bottom of the Storage layer to the invert of the drain outlet (inches). For this project, the offset value is set to 3 inches.

SECTION VI - **SWMM Hydraulic Components**

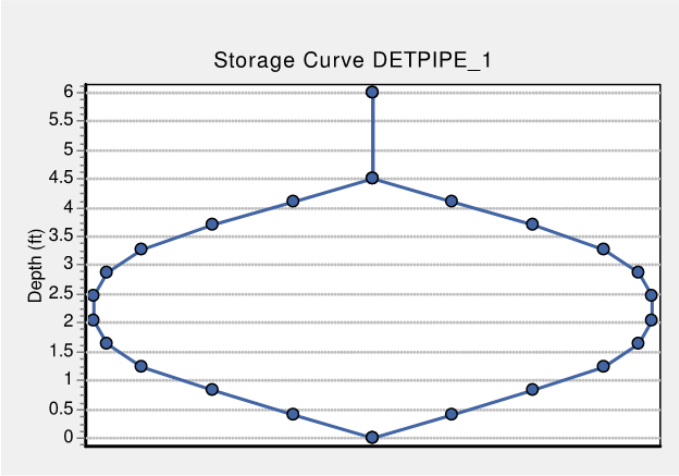
SWMM contains a flexible set of hydraulic modeling capabilities used to route runoff and external inflows through a storm drain network, channels, storage and diversion structures. The components used within this model are described below:

1. Storage Nodes

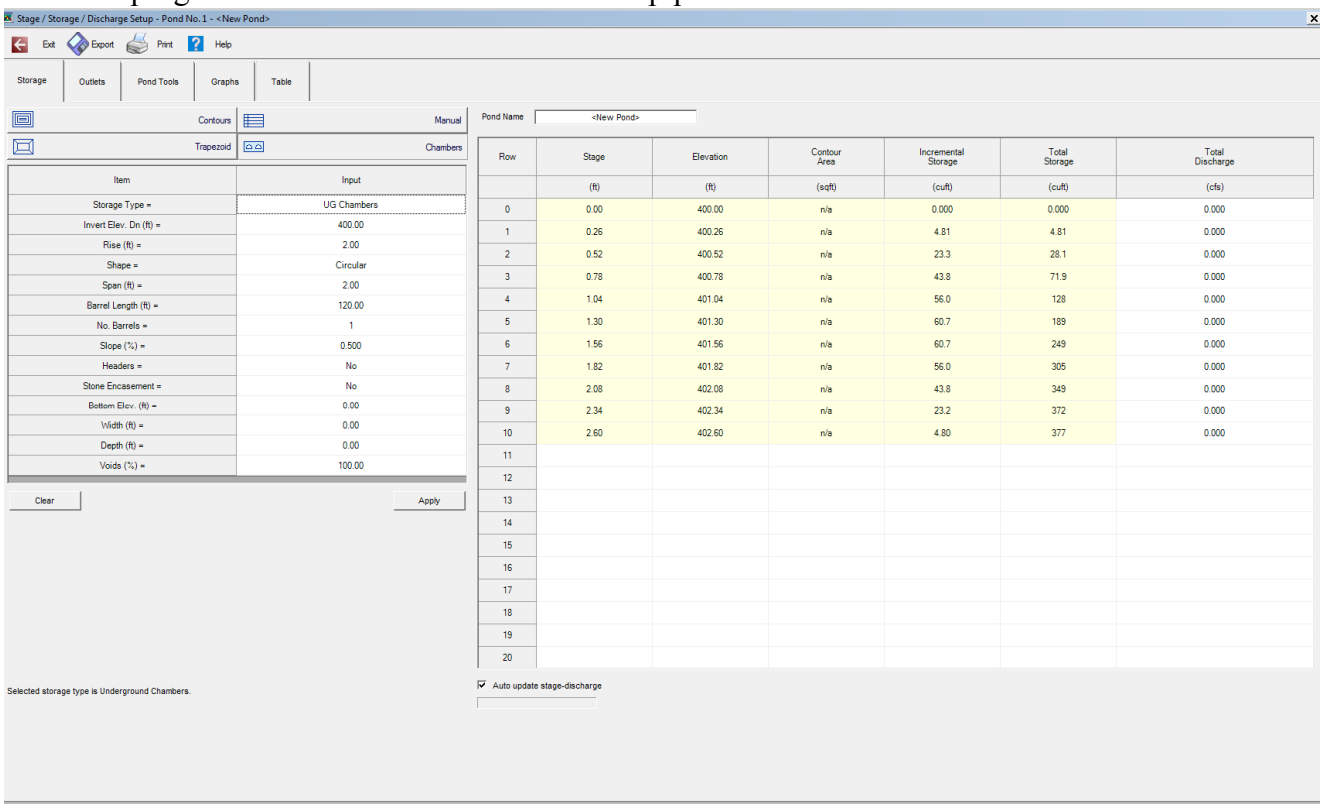
Storage nodes provide a storage unit within SWMM which provides storage of storm water runoff. Physically, the node represents storage facilities as small as a catch basin or surface storage up anything as large as a lake. The volumetric properties of the storage node is described in a table of surface area versus height.

Storage nodes are used to model the surface storage capacity of the bioretention LID above the berm height. In addition, storage nodes are used to represent two detention pipes to ensure the amount and duration of peak flow are below the pre-developed conditions. The storage nodes are each linked with a storage curve table which describes how the surface area of a storage unit node varies with water depth. An important note to make is that the storage curve table and cross-sectional view is greatly impacted by the longitudinal slope of the detention pipe. The steepness of the pipe will produce different phases or shape: parabolic, trapezoidal or ellipse.

The detention pipes in this study are designed with a 0.5% longitudinal slope and produce the resulting cross-sectional view and storage tables shown below:



Hydrograph Hydraflow Hydrographs Extension Version 10.4 by Autodesk, Inc. was used to determine the volume of the storage pipe up to the proposed weir. The following diagram below depicts a simple scenario where a pipe was constructed and then the volume and depth were extracted. An Excel Spreadsheet was then used to determine the area versus the depth of the detention pipe. These to values were then able to be placed in a storage curve of swmm to allow the program to determine the volume of the pipe.



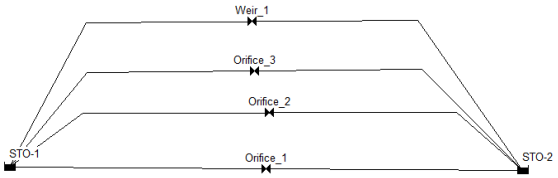
2. *Orifice Links*

An orifice link provides a connection type between two nodes within SWMM. The orifice can either be circular or rectangular shaped. For this study, the orifice link is used to represent the opening along the side or bottom of the storage node that serves as an outlet. The orifice link connects the upstream storage node to another storage node or to the outfall.

Rectangular shaped orifice was selected to drain the surface storage in each bioretention LID and two detention pipes in this study.

3. ***Weir Links***

A weir link, much like an orifice link, provides a connection between two nodes within SWMM and provides an option to model outlet and diversion of flows within the drainage system. Detention pipes are modeled with storage nodes and connected with weir or orifice links.



SECTION VII - **RUNNING THE SIMULATION**

In general, the Run time will depend on the complexity of the watershed being modeled, the routing method used, and the size of the routing time step used. The larger the time steps, the faster the simulation, but the less detailed the results.

Model Results

SWMM's Status Report summarizes overall results for the 35-yr simulation. After the simulation run completes successfully, the mass continuity errors for runoff, flow routing, and pollutant routing is displayed in the Run Status window. These errors represent the percent difference between initial storage + total inflow and final storage + total outflow for the entire drainage system. If the values exceed some reasonable level, such as 10 percent, then the validity of the analysis results must be questioned. This simulation produced a runoff continuity error -6.56% and the flow routing continuity error 0.0018 and is within reasonable error to determine this study to be valid.

In addition to the system continuity error, the Status Report produced by a run lists those nodes of the drainage network that have the largest flow continuity errors. If the error for a node is excessive, then one should first consider if the node in question is of importance to the purpose of the simulation. If it is, then further study is warranted to determine how the error might be reduced. For this study all node errors were within range of what is reasonable.

SECTION VIII - **RESULT ANALYSIS**

Development of the Flow Duration Statistics

The flow duration statistics are also developed directly from the SWMM binary output file. It should be noted right from the start that the "durations" that we are talking about in this section have nothing to do with the "storm durations" presented in the peak flow statistics section. Other than using the same sequence of letters for the word, the two concepts have nothing to do with each other and the reader is cautioned not to confuse the two. The goal of the flow duration statistics is to determine, for the flow rates that fall within the geomorphologicaly significant range, the length of time that each of those flow rates occur. Since the amount of sediment transported by a river or stream is proportional to the velocity of the water flowing and the length of time that velocity of flow acts on the sediment, knowing the velocity and length of time for each flow rate is very useful.

Methodology

The methodology for determining the flow duration curves comes from a document developed by the U.S. Geological Survey (USGS). The first stop on the journey to find this document was a link to the USGS water site (http://www.usgs.gov/water/). This link is found in Appendix E (SDHMP Continuous Simulation Modeling Primer), found in the County Hydromodification Management Plan[3]. On this web site a search for "Flow Duration Curves" leads to USGS Publication 1542-A, Flow-duration curves, by James K. Searcy 1959 (http://pubs.er.usgs.gov/publication/wsp1542A). In this publication the development of the flow duration curves is discussed in detail.
In Pub 1542-A, beginning on page 7 an example problem is used to illustrate the compilation of data used to create the flow duration plots. On page 8 a completed form 9-217-c form shows the monthly tabulation of flow rates for Bowie Creek near Hattiesburg, Miss. For each flow range the number of readings is tabulated and then the total number of each flow rate is totaled for the year. It should be noted that while this example is for a stream with a minimum flow rate of 100cfs, for the purposes of run-off studies in Southern California the minimum flow rate of zero (0) cfs is the common low flow value. Once each of the year's data has been compiled the summary numbers from each year are transferred to form 9-217-d. On this form the total number of each flow rate is again totaled and the percentage of time exceeded calculated (as will be explained later under the discussion of our calculations). Once the data has been compiled a graph of Discharge Rate vs. Percent Time Exceeded is developed. As will be explained in the next section, the use of these curves leads to the amount of time each particular flow can be expected to occur (based on historical data).

How to Read the Graphs[4]

Figure 1 shows a flow duration curve for a hypothetical development. The three curves show what percentage of the time a range of flow rates are exceeded for three different conditions: pre-project, post-project and post-project with storm water mitigation. Under pre-project conditions the minimum geomorphically significant flow rate is 0.10 cfs (assumed) and as read from the graph, flows would equal or exceed this value about 0.14% of the time (or about 12 hours per year) (0.0014 x 365 days x 24 hour/day). For post-project conditions, this flow rate would occur more often – about 0.38% of the time (or about 33 hours per year) (0.0038 x 365 days x 24 hour/day). This increase in the duration of

[3] FINAL HYDROMODIFICATION MANAGEMENT PLAN, Prepared for County of San Diego, California, March 2011, by Brown and Caldwell Engineering of San Diego.
(http://www.projectcleanwater.org/images/stories/Docs/LDS/HMP/0311_SD_HMP_wAppendices.pdf)
[4] The graph and the explanation were taken directly from Appendix E of the Hydromodification Plan

the geomorphically significant flow after development illustrates why duration control is closely linked to protecting creeks from accelerated erosion.

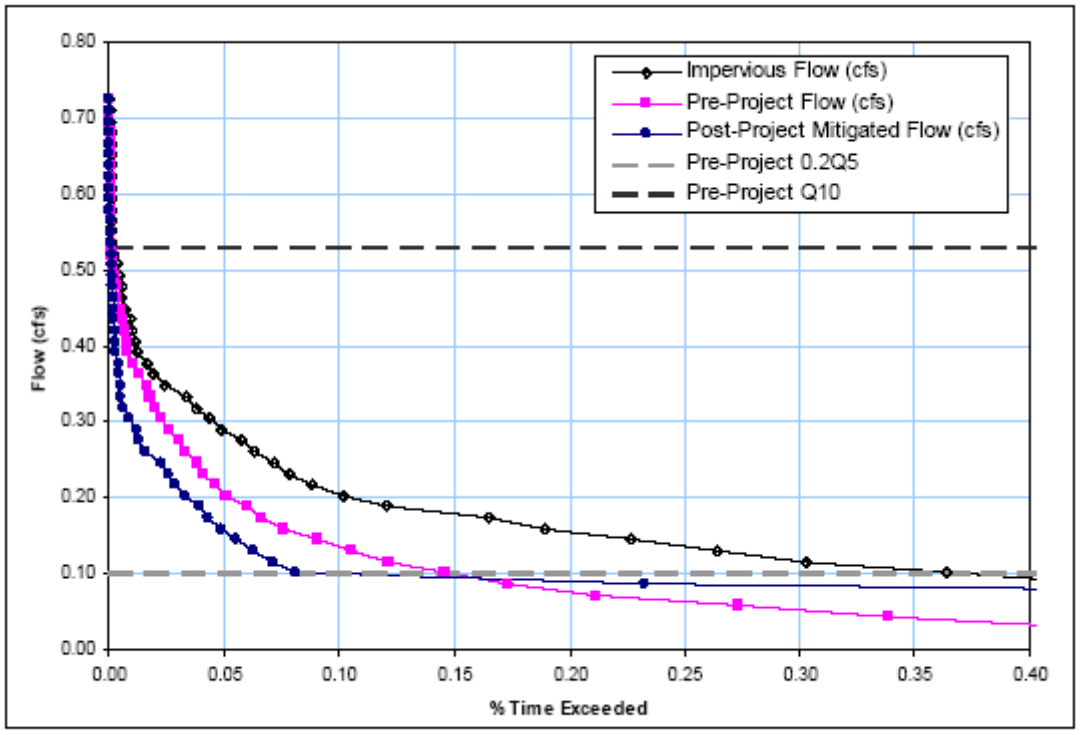


Figure 1. Flow Duration Series Statistics for a Hypothetical Development Scenario

Development of Flow Duration Curves

The first step in developing the flow duration curves is to count the number of occurrences of each flow rate. This is done by first rounding every non-zero flow value to an appropriate number of decimal places (say two places). This in effect groups each flow into closely related values or "bins" as they are referred to in publication 9-217d. Then the entire runoff record is queried for each value and the number of each value counted. The next step is to enter the results of the query into a grid patterned after form 9-217d. The data is entered in ascending order starting with the lowest flow first. The grid is composed of four columns. They are (from left to right) Discharge Rate, Number of Periods (count), Total Periods Exceeding (the total number of periods equal to or exceeding this value), and Percent Time Exceeded. Starting at the top row (row 1), the flow rate (which is often times zero) is entered with the corresponding number of times that value was found. The next column is the total number of values greater than or equal to that flow rate. For the first flow rate point, by definition all flow rate values are greater than or equal to this value, therefore the total number of runoff records of the rainfall record is entered here. The final column which is the percent of time exceeded is calculated by dividing the total periods exceeded by the total number of periods in the study. For the first row this number should be 100%

For the next row (row 2), the flow rate, and the flow rate count are entered. The total number of periods exceeding for row 2 is calculated by subtracting Number of Periods of row 1 from the Total Periods Exceeding of line 1. This result is entered in the Total Periods Exceeding on row 2. As was the case for line 1, the final column is calculated by dividing the total periods exceeded by the total

number of periods in the study. For the second row this number should be something less than 100% and continually decrease as we move down the chart. If all the calculations are correct, then everything should zero out on the last line of the calculations.
The final step in developing the flow duration curves is to make a plot of the Discharge Rate vs. the Percent Time Exceeded. For the purposes of this report, the first value corresponding to the zero flow rate is not plotted allowing the graph to be focused on the actual flow rate values.

The Flow Duration Analysis

The Peak Flow Statistics analysis is composed of the following series of files:

1. The Flow Duration Plot
2. Comparison of the Un-Mitigated Flow Duration Curve to the Pre-Development Curve (Pass/Fail)
3. Comparison of the Mitigated Flow Duration Curve to the Pre-Development Curve (Pass/Fail)
4. The calculations for the Pre-Development flow duration curve development (USGS9217d)
5. The calculations for the Post-Development flow duration curve development (USGS9217d)
6. The calculations for the Mitigated flow duration curve development (USGS9217d)

The Flow Duration Plot

The Flow Duration Curves Plot is the plotting of all three (pre, un-mitigated and mitigated) sets of Discharge Rate vs. the Percent Time Exceeded data point pair lists. In addition to these curves horizontal lines are plotted corresponding to the Q_{10} and Q_{lf} (low flow threshold) values. Within the geomorphically significant range ($Q_{10} - Q_{lf}$) one can see a visual representation of the relative positions of the flow duration curves. The flow duration curves are compared in an East/West (horizontal) direction to compare post development Discharge Rates to pre-development Discharge Rates. The pre-development curve is plotted in blue, the unmitigated curve is plotted in red, and the mitigated curve is plotted in green. As long as the post development curve lies to the left of the pre-development curve (mostly[5]), the project meets the peak flow hydromodification requirements.

Pass/Fail comparison of the curves

The next two sets of data are the point by point comparison of the post-development curve(s) and the pre-development curve. The Pass/Fail table is helpful in determining compliance since the plotted lines can be difficult to see at the scales suitable for use in a report. Each point on the post-development curve has a corresponding "Y" value (Flow Rate), and "X" value (% Time Exceeded). For each point on the post development curve, the "Y" value is used to interpolate the corresponding Percent Time Exceeded (X) value from the pre-development curve. Then the Post-development Percent Time Exceeded value is compared to the pre-development Percent Time Exceeded value. Based on the relative values of each point, pass/fail criteria are determined point by point.
For each set of data, the upper right hand header value shows the name of the file being displayed (ex. flowDurationPassFailMitigated.TXT). The first line of the file shows the name of the SWMM output file (*.out). The next line shows the time stamp of the SWMM file that is being analyzed. The time stamps of all of the report files should be within a minute or two of each other, otherwise there may

[5] See hydromodification limits for exceedance of pre-development values

have been tampering with the files. Each report run creates and prints all of the files and reports at one time so all the time stamps should be very close.
The first column is the zero based number of the point. The next two columns show the post development "X" and "Y" values. The next column shows the value interpolated between the two bounding points on the pre-development curve. The next three columns show the true or false values of the comparison of the two "X" values. The last column shows the resultant pass or fail status of the point. There are three ways a point can pass. They are:

1. Q_{post} being outside of the geomorphically significant range Q_{lf} to Q_{10}
2. Q_{post} being less than Q_{pre}
3. Q_{post} being less than 110% of the value of Q_{pre} if the point is between Q_{lf} and Q_{10}

There are two ways that a point can fail. They are:

1. Q_{post} being greater than 110% of Q_{pre} if the point is between Q_{lf} and Q_{10}
2. If more than 10% of the points are between 100% and 110% of Q_{pre} for the points between Q_{lf} and Q_{10}

A quick scan down the last column will quickly tell if there are any points that fail.
At the bottom of each set of data are the date stamp of the report to the left, and to the right is the page number/number of pages for the specific set of data (not the pages of the report!). Each new set of data has its own page numbering. Between the file name in the header row and the page numbering in the footer row, the engineer can readily scan the document for the data of interest.

As was described under the peak flow section, is the responsibility of the reviewing agency to confirm that the data sets presented are valid results from consistent calculations, and that any and all results can be duplicated by manual methods and achieve the same results. In light of these goals, the plan checker is invited to consider the following tasks as part of the plan check process.

Compare the Data Stamps for Each of the Statistics Files Used In This Analysis.
As was described in the Peak Flows section, all report files should have time stamps that are nearly identical. If the time values are more than a few minutes apart then the potential for inconsistent results files should be investigated.

Verifying the Flow Rate Counts
For each of the pre, un-mitigate and mitigated flow duration tables, a few randomly selected flow value counts should be checked against the values taken directly from the SWMM file. This can be done by opening the corresponding SWMM file, selecting the outfall node, selecting Report>Table>By Object, Setting the time format to Date/Time, selecting the appropriate node value, and clicking the OK button to generate a table of the date/time/Total Inflow values. Next step is to click in the left most header row of the SWMM table which will select the entire table. Now from the main menu select Edit>Copy To>Clipboard. Now open a new blank sheet in MS Excel (or suitable spread sheet program) select cell A1 and paste the results from the clipboard into the spread sheet. Now sort the values based on the Total Inflow column. This will group all the flow values together enabling the number of occurrences of each value to be counted. At this point the a few (or all) of the counts on the various USGS9217d.txt files can be verified.
Manually Verify That the Percent Exceeded Values (form USGS9217d) are Correctly Calculated
The discharge rates and counts are confirmed as was described above. The top row should be the smallest runoff value (0.00 cfs usually). Total Periods Exceeding of the first line should be the total number of rainfall records in the study. The percentage of Time Exceeding should be the total periods

Exceeding divided by the total number of rainfall records in the study (100% for the first line). For each successive discharge rate, the total periods exceeding for the current line should be the total periods exceeding from the line above minus the number of periods from the line above. The number of periods and the number of periods exceeding should zero out at the last line.

Compare Plotted Curves to Table Data

Randomly check a few of the plotted points against the values verified above.

Verify by Observation that the plotted values of $Q_{10\ a}$nd Q_{lf} are reasonable.

Verify that the correct values for each of these return periods are plotted correctly on the graph.

Development of the Peak Flow Statistics

The peak flow statistics are developed directly from the binary output file produced by the SWMM program. The site is modeled three ways, Pre-Development, Post-Development-Unmitigated, and Post-Development-Mitigated. For each of these files a specific time period differentiating distinct storms is chosen. The SWMM results are extracted and each flow value is queried. The majority of the values for Southern California sites are zero flow. As each successive record is read, as soon as a non-zero value is read the time and flow value of that record are recorded as the beginning of an event. The first record is automatically recorded as the "tentative" peak value. As each successive non-zero value is read and the successive flow value is compared to the peak value and the greater value is retained as the peak value of the storm. As soon as a successive number of zero values equal to the predetermined storm separation value, then the time value of the last non-zero value is recorded as the end of the storm, the duration of the storm is the difference between the end time and the start time, and the peak value is recorded as the highest flow value between the start and end times.

Once the entire SWMM output file is read all of the distinct storm events will have been recorded in a special list. The storms will be in the order of their occurrence. To develop the peak flow statistics table the first step is to sort the storms in descending order of the peak flow value. Once the list is sorted then the relative rank of each storm is assigned with the highest ranking storm being the storm with the highest peak flow. There are several methods that can be used to determine which storm should be ranked above another equally valued storm. For the purposes of these studies an Ordinal ranking is used so that each storm has a unique rank number. Where two or more storms have equal flow values, the earlier storm is assigned the higher rank. This is done consistently throughout the storm record. Since we are only looking at peak flow statistics, it is assumed that the relative ranking of individual (but equal) storms is irrelevant to the calculations.

The exceedance frequency and return period are both computed using the Weibull formula for plotting position. Therefore, for a specific event the exceedance frequency F and the return period in years T are calculated using the following equations[6]:

$F=m/(n_R+1)$ and $T=n+1/m$

Where m is the event's rank, n_R is the total number of events and n is the number of years under analysis.

Once the Peak flow statistics table is complete, a plot of Return Frequency vs. peak flow is created. All three conditions (pre, post and mitigated) are plotted on the same plot.

The Peak Flow Statistics Analysis

The Peak Flow Statistics analysis is composed of the following series of files:

1. The Peak Flow Frequency Plot

[6] Pg 169-170 STORM WATER MANAGEMENT MODEL APPLICATIONS MANUAL, EPA/600/R-09/000 July 2009

2. The Comparison of the Un-Mitigated Peak Flow Curve to the Pre-Development Curve (Pass/Fail)
3. The Comparison of the Mitigated Conditions Curve to the Pre-Development Curve (Pass/Fail)
4. The Peak Flow Statistics Calculation for the Pre-Development Curve.
5. The Peak Flow Statistics Calculation for the Un-Mitigated Curve.
6. The Peak Flow Statistics Calculation for the Mitigated Curve.

The Peak Flow Frequency Plot

The Peak Flow Frequency Curves are the plotting of all three (Pre, Un-Mitigated and Mitigated) sets of return Period vs peak flow data point pair lists. In addition to these curves horizontal lines are plotted corresponding to the Q_{10}, Q_5, Q_2 and Q_{lf} (low flow threshold) values. Within the geomorphically significant range ($Q_{10} - Q_{lf}$) one can see a visual representation of the relative positions of the peak flow curves. The peak flow curves are compared in a North/South (vertical) direction to compare post development peak flows to pre-development flows. The Pre-Development curve is plotted in blue, the unmitigated curve is plotted in red, and the mitigated curve is plotted in green. As long as the post development curve lies below the pre-development curve (mostly[7]), the project meets the peak flow hydromodification requirements.

Pass/Fail comparison of the curves

The next two sets of data are the point by point comparison of the post-development curve(s) and the pre-development curve. The Pass/Fail table is helpful in determining compliance since the plotted lines can be difficult to see at the scales suitable for use in a report. Each point on the post-development curve has a corresponding "X" value (Recurrence Interval), and "Y" value (Peak Flow). For each point on the post development curve, the "X" value is used to interpolate the corresponding peak flow value from the pre-development curve. Then the Post-development peak flow value is compared to the pre-development peak flow value. Based on the relative values of each point, pass/fail criteria are determined point by point.

For each set of data, the upper right hand header value shows the name of the file being displayed (ex. peakFlowPassFailMitigated.TXT). The first line of the file also shows this value. The next line shows the time stamp of the file that is being analyzed. The time stamps of all of the report files should be within a minute or two of each other, otherwise there may have been tampering with the files. Each report run creates and prints all of the files and reports at one time so all the time stamps should be very close. It should be noted that the SWMM.out files will not have related time stamps since each file is developed independently.

The first column is the zero based number of the point. The next two columns show the post development "X" and "Y" values. The next column shows the value interpolated between the two bounding points on the pre-development curve. The next three columns show the true or false values of the comparison of the two "Y" values. The last column shows the resultant pass or fail status of the point. There are three ways a point can pass. They are:

1. Point is outside of the geomorphically significant range $Q_{10} - Q_{lf}$
2. Q_{post} being less than Q_{pre}
3. Q_{post} being less than 110% of the value of Q_{pre} if the point is between Q_5 and Q_{10}[8]

[7] See hydromodification limits for exceedance of pre-development values

[8] See section on how a point can fail point number 3 hereon

There are four ways that a point can fail. They are:

1. Q_{post} being greater than Q_{pre} if the point is between Q_{lf} and Q_5
2. Q_{post} being greater than 110% of Q_{pre} if the point is between Q_{lf} and Q_{10}
3. If more than 10% of the points are between 100% and 110% of Q_{pre} for the points between Q_5 and Q_{10}
4. If the frequency interval for points > 100% of Q_{pre} is greater than 1 year for the points between Q_5 and Q_{10}

A quick scan down the last column will quickly tell if there are any points that fail.
At the bottom of each set of data are the date stamp of the report to the left, and to the right is the page number/number of pages for the specific set of data (not the pages of the report!). Each new set of data has its own page numbering. Between the file name in the header row and the page numbering in the footer row, the engineer can readily scan the document for the data of interest.

The Peak Flow Statistics Calculations

There are three sets of data for the Peak Flow Statistics calculations (Pre-Development, Un-Mitigated, and Mitigated). As was the case for the pass/fail data, the upper right hand corner of each sheet has the file name. The first row of the data is the SWMM file name. The second row is the SWMM file time stamp of the file being analyzed. The 4^{th}, 5^{th}, and 6^{th} rows are the calculated values for Q_{10}, Q_5, and Q_2. These values are derived by linear interpolation between the nearest bounding points in the listing. While the relationship between the points in the peak flow analysis is not technically a linear relationship, the error introduced in using linear interpolation between such relatively close data points is assumed to be irrelevant. Finally, the footer row shows the report time and the page/number of pages of the data set.

As was previously discussed, each storm listed was determined by reading the flow values directly from the binary output file from the SWMM program. The storms were then sorted in descending order of peak flow values. Then each storm was assigned a unique rank, then the Frequency and Return Period were calculated using Weibull formulas. Every discharge value for the entire rainfall record is listed in each of these lists. It should be noted that the derivation of these peak flow statistics values use full precision (i.e. no rounding off) of the SWMM output values. Since the precision of the calculations may not be the same as the SWMM program uses, and also the assignment of rank to values of equal peak flow value may differ slightly from the way SWMM calculates the tables, minor variances in the data values and/or the order of storms can be expected.
Finally, as was previously stated, the values of the Return Period were plotted vs. the peak flow values to develop the peak flow frequency curves.

Verifying A Few Random Storm Statistics

For each of the Pre- and Mitigated peak flow statics tables, a few randomly selected storms should be checked against the values taken directly from the SWMM file. This can be done by opening the corresponding SWMM file, selecting the outfall node, selecting Report>Table>By Object, Setting the time format to Date/Time, selecting the appropriate node value, and clicking the OK button to generate a table of the date/time/Total Inflow values. Now scroll down the list to the start date and time of the randomly selected storm. Verify that the start date, end date, and the highest flow value between the start and end date correspond to the values shown in the statistics table. Do this for a few storm to verify that the data corresponds to the SWMM output file. Verify by hand a few of the frequency and return period values.

Compare Plotted Curves to Table Data
Randomly check a few of the plotted points against the values found in the Peak Flow Frequency Tables.

Verify by Observation that the values of Q_{10}, Q_5, Q_2 and Q_{lf} are reasonable.
For each value shown on the reports, verify that the value shown for say Q10 is in between the next higher return period and the next lower period. Also verify that the correct values for each of these return periods are plotted correctly on the peak flow frequency graph.
Manually Verify That the Pass Fail Table Is Correctly Calculated
Select at random several points on each of the pass/fail tables to verify that the values for post X/Y and interpolated Y look reasonable. Also check that the various test results are shown accurately in the chart and also the final pass/fail result looks accurate.

Drawdown Time of Bioretention Surface Ponding
The general equation used for drawdown time for surface ponding is derived by utilizing SWMM's underdrain coefficient (C factor). To derive the equation, the change in water volume with respect to time is set equal to the standard orifice equation found in the County Hydraulics manual:

$$q = \frac{dh}{dt} nA_p = C_o A_o \sqrt{2gh} \qquad \text{Eq. 6.1}$$

Where: q = flow, cfs
dh = change in ponding height above orifice, in
dt = change in time to drain, hr
n = porosity (set to 1 for surface layer)
A_o= cross-sectional area of orifice, in
C_o= orifice coefficient, unitless
A_o= cross-sectional area of orifice, in
g = gravity, 32.2 $\frac{ft}{sec^2}$

Substituting 1 for porosity and rearranging Eq. 6.1 we get:

$$\frac{dh}{dt} = \frac{C_o A_o \sqrt{2gh}}{A_p} \qquad \text{Eq. 6.2}$$

Solving the definite integral height from h_1 to h_2 and drain time from zero to an ultimate time (T):

$$\int_{h=h1}^{h=h2} h^{-0.5} dh = \int_{t=0}^{t=T} \frac{CoAo\sqrt{2g}}{Ap} \, dt$$

$$\int_{h=h1}^{h=h2} h^{-0.5}dh = \int_{t=0}^{t=T} \frac{CoAo\sqrt{2g}}{Ap}\ dt$$

$$2(\sqrt{h2} - \sqrt{h1}) = \frac{CoAo\sqrt{2g}}{Ap}\ (T)$$

$$Per\ Eq\ 4.6\text{: } C = \frac{CoAo\sqrt{2g}}{Ap}\ \left(\frac{in^{0.5}}{hr}\right)$$

$$2n\left(\sqrt{h2} - \sqrt{h1}\right) = C\ (T)$$

$$T = \frac{2n\left(\sqrt{h2} - \sqrt{h1}\right)}{C}\ (hr) \qquad \text{Eq. 6.3}$$

Where: T = Ultimate time to drain change in head, hr
C = SWMM underdrain coefficient
h_1 = head above the underdrain orifice at bottom of surface, in
h_2 = beginning head above the underdrain orifice at surface, in

Underdrain and Drawdown Results

The following table summarizes the underdrain coefficients used for each of the BMP units and translates the C factor coefficient to an equivalent round orifice diameter based on 1/16th inch increments. The drawdown equations are based on standard falling head drawdown theory. The primary drawdown number of interest is the surface drawdown based on vector concerns. The various soil and gravel storage layer calculations consider the void ratio and porosity of the respective layer. It should be noted that these drawdown calculations only consider the volume of water within the bioretention units. If the bioretention unit utilizes any storage above the berm height, then that storage drawdown is in addition to the values shown in the table below. Those calculations, if present, are shown elsewhere in the report. The derivation and explanation of the equations used to determine the values displayed in the chart are discussed in the following two sections of this portion of the report.

Sub Cat Name*	LID Process*	LID Area (sf)*	Orifice D (1/16in)	Orifice D (in)	UD C factor*	T surf (in)*	T soil (in)*	T store (in)*	n (soil)*	e (store)*	Drawdown surface (hr)	Drawdown Soil (hr)	Drawdown Storage (hr)	Drawdown total (hr)
BMP-1	BMP-1	6812.78	15	0.9375	0.042954777	6	24	12	0.4	0.67	22.4	47.2	64.7	134.3
BMP-2	BMP-2	5083.02	14	0.875	0.050151921	6	18	12	0.4	0.67	20.8	32.1	55.4	108.4
BMP-3	BMP-3	396.4	16	1	0.839961994	6	24	18	0.4	0.67	1.1	2.1	4.1	7.2
BMP-4	BMP-4	1206.61	16	1	0.275947435	6	24	18	0.4	0.75	3.2	6.5	12.3	22.1
BMP-5	BMP-5	300.56	16	1	1.107801885	6	24	18	0.4	0.75	0.8	1.6	3.1	5.5

The character * in the column heading indicates that the values was read directly from the SWMM inp file.
Assume: orifice coefficient C_o = 0.60, void ratio for surface = 1.0, centroid of underdrain orifice is located at h=0

Underdrain C Factor Equations

Based on the slotted drain example in the SWMM Drain Advisor (EPA SWMM 5.1 Help/Contents/Reference/Special Dialog Forms/LID Editors/LID Control Editor/LID Drain System/Drain Advisor) the underdrain coefficient C is the ratio of the orifice area (total slot area) to the LID area times a constant (60,000).

SWMM Ex: If the drain consists of slotted pipes where the slots act as orifices, then the drain exponent would be 0.5 and the drain coefficient would be 60,000 times the ratio of total slot area to LID area. For example, drain pipe with five 1/4" diameter holes per foot spaced 50 feet apart would have an area ratio of 0.000035 and a drain coefficient of 2.

The 60,000 constant in the above example corresponds to the combined constants in the standard orifice equation:

(Standard Orifice Equation)

$$q = C_o A_o \sqrt{2g}\sqrt{h}\ (cfs)$$

and

(SWMM Underdrain Equation (per unit area))

$$q = q/A_{LID}$$

or

$$q = C_o A_o / A_{LID} \sqrt{2g}\sqrt{h}\ (cfs/sf)$$

With a Co=0.6 and converting $\sqrt{2g}$ to units of inches and hours the constant becomes 60,046.

So the underdrain C factor per unit area of the LID becomes:

$$C = 60{,}046\ A_o/A_{LID}\ (in^{\wedge 1/2}/hr)$$

and

$$q = C^* h^{1/2}$$

Drawdown Equations

The drawdown equations presented in the chart are the drawdown times for the respective layers within the bioretention unit (only). If the bioretention unit includes storage ponding above the berm height, then the drawdown time for the storage portion is in addition to the values shown in the chart. Those calculations (if present) are shown elsewhere in the report. For most cases the storage drawdown time will be comparatively short as compared to the bioretention drawdown times.

To derive a general formula that relates drawdown time for each layer of the bioretention unit in terms of the SWMM C factor, we set the change in water volume with respect to time equal to the standard orifice equation (found in the County Hydraulics manual):

$$q = \frac{dh}{dt} nAp = CoAo\sqrt{2gh}$$

Where n = porosity of the layer, A_P = area of the BMP unit, Co = orifice coefficient, Ao = area of the orifice, and g = gravity constant. The porosity n for the surface layer is 1.0, and the values for the soil and storage layers read from the SWMM LID definitions.

Solving the definite integral from h1 to h2

$$\int_{h=h1}^{h=h2} h^{-0.5} dh = \int_{t=0}^{t=T} \frac{CoAo\sqrt{2g}}{nAp}\ dt$$

$$2(\sqrt{h2} - \sqrt{h1}) = \frac{CoAo\sqrt{2g}}{nAp}\ (T)$$

$$Or$$

$$2n\left(\sqrt{h2} - \sqrt{h1}\right) = C\ (T)$$

$$where: C = \frac{CoAo\sqrt{2g}}{Ap}\ \ (in^{\wedge 1/2}/hr)$$

Solving for T:

$$T = \frac{2n\left(\sqrt{h2} - \sqrt{h1}\right)}{C}\ \ (hr)$$

Where h2(in) is the total beginning head above the underdrain orifice at t=0 and h1(in) is the total ending head above the orifice at t=T. Ex: h2 for surface = depth of gravel storage plus depth of soil layer plus berm height, and h1 for surface = depth of gravel storage plus depth of soil layer.

STATISTICS ANALYSIS OF THE SWMM FILES FOR:

DISCHARGE NODE: POC-1

ANALYSIS DETAILS

Statistics Selection: Nodes/Total Inflow
Stream Susceptibility to Channel Erosion: High (Qlf = (0.1)Q2)
Assumed time between storms (hours): 24

PRE-DEVELOPMENT SWMM FILE

SWMM file name: V:\17\17053\engineering\TM\Current\SWMM\17053 Pre-development.out
SWMM file time stamp: 8/2/2019 2:00:05 PM
Selected Node to Analyze: POC-1

POST-DEVELOPMENT MITIGATED SWMM FILE

SWMM file name: V:\17\17053\engineering\TM\Current\SWMM\17053 post-development_2-5inhr.out
SWMM file time stamp: 8/2/2019 1:46:43 PM
Selected Node to Analyze: POC-1

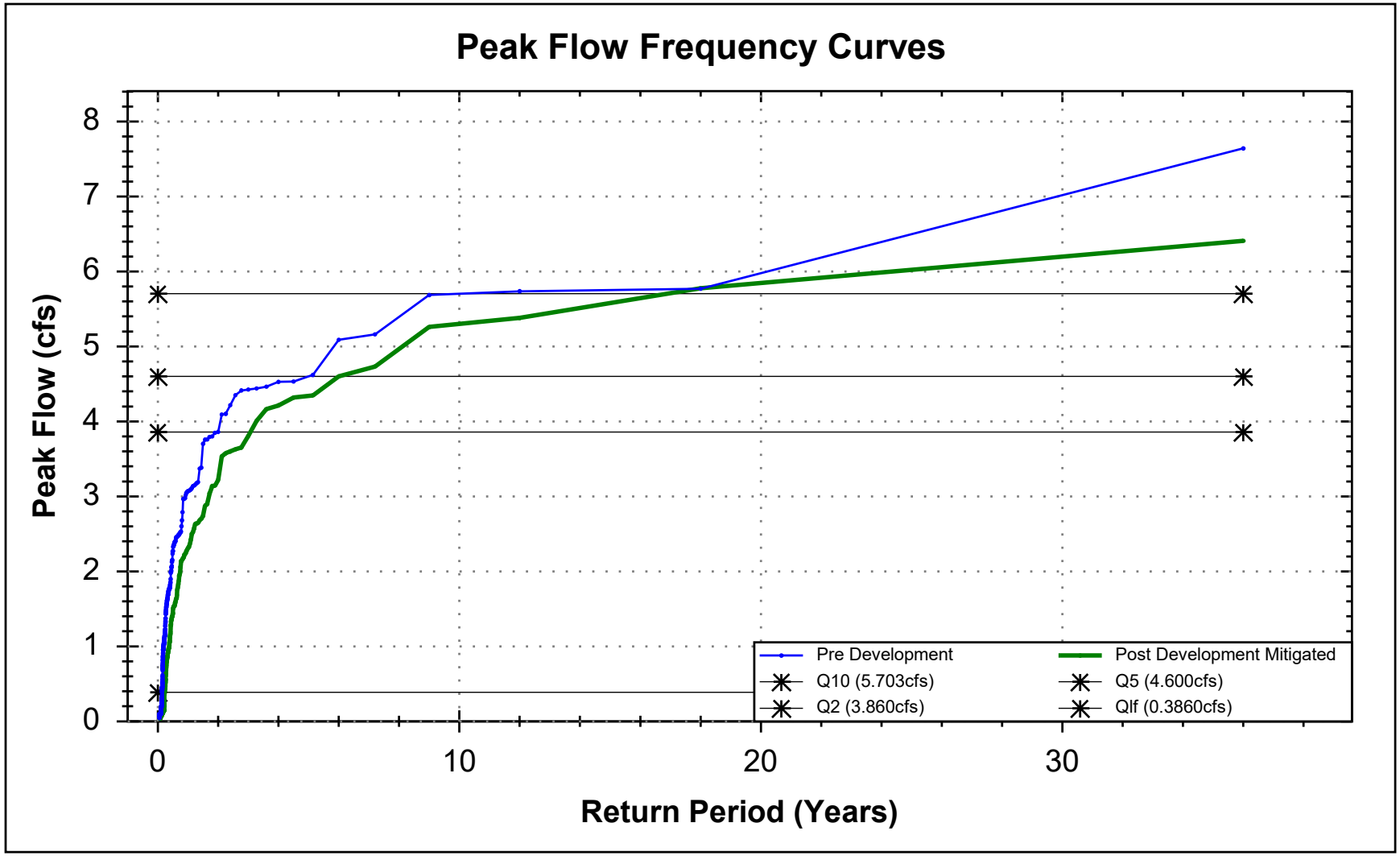
MITIGATED CONDITIONS RESULTS

For the Mitigated Conditions:

Peak Flow Conditions PASS
Flow Duration Conditions PASS

The Mitigated Conditions peak flow frequency curve is composed of 510 points. Of the points, 2 point(s) are above the flow control upper limit (Q10), 345 point(s) are below the low flow threshold value (Qlf). Of the points within the flow control range (Qlf to Q10), 163 point(s) have a lower peak flow rate than pre-development conditions. These points all pass. There are no points that failed, therefore the unmitigated conditions peak flow requirements have been met.

The Mitigated Conditions flow duration curve is composed of 100 flow bins (points) between the upper flow threshold (cfs) and lower flow threshold (cfs). Each point represents the number of hours where the discharge was equal to or greater than the discharge value, but less than the next greater flow value. Comparing the post-development flow duration curve to the pre-development curve, 99 point(s) have a lower duration than pre-development conditions. These points all pass. There are no points that failed, therefore the unmitigated conditions flow duration requirements have been met.


Peak Flow Frequency Curves
Peak Flow (cfs)
0
1
2
3
4
5
6
7
8
0
10
20
30
Return Period (Years)
Pre Development
Post Development Mitigated
Q10 (5.703cfs)
Q5 (4.600cfs)
Q2 (3.860cfs)
Qlf (0.3860cfs)

Compare Post-Development Curve to Pre-Development Curve

post-development SWMM file: V:\17\17053\engineering\TM\Current\SWMM\17053 post-development_2-5inhr.out
post-development time stamp: 8/2/2019 1:46:43 PM
Compared to:
pre-development SWMM file: V:\17\17053\engineering\TM\Current\SWMM\17053 Pre-development.out
pre-development time stamp: 8/2/2019 2:00:05 PM

Post PT #	Rtn Prd (yrs)	Post Dev Q	Pre Dev Q	Qpost < Qpre	Qpost > Qpre	Qpost > 110% Qpre	Pass/Fail
0	36.00	6.41	7.64	FALSE	FALSE	FALSE	Pass- Qpost Above Flow Control Upper Limit
1	18.00	5.78	5.77	FALSE	FALSE	FALSE	Pass- Qpost Above Flow Control Upper Limit
2	12.00	5.38	5.74	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
3	9.00	5.26	5.69	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
4	7.20	4.73	5.16	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
5	6.00	4.60	5.09	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
6	5.14	4.35	4.62	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
7	4.50	4.32	4.53	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
8	4.00	4.21	4.53	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
9	3.60	4.16	4.46	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
10	3.27	4.01	4.44	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
11	3.00	3.81	4.42	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
12	2.77	3.65	4.41	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
13	2.57	3.63	4.35	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
14	2.40	3.60	4.22	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
15	2.25	3.58	4.10	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
16	2.12	3.53	4.09	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
17	2.00	3.22	3.86	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
18	1.90	3.14	3.85	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
19	1.80	3.14	3.80	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
20	1.71	3.04	3.79	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
21	1.64	2.90	3.76	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
22	1.57	2.87	3.76	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
23	1.50	2.74	3.70	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
24	1.44	2.70	3.38	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
25	1.39	2.68	3.37	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
26	1.33	2.65	3.19	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
27	1.29	2.64	3.18	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
28	1.24	2.63	3.16	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
29	1.20	2.57	3.14	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
30	1.16	2.52	3.14	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
31	1.13	2.50	3.11	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
32	1.09	2.42	3.09	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
33	1.06	2.36	3.08	TRUE	FALSE	FALSE	Pass- Qpost < Qpre

Post PT #	Rtn Prd (yrs)	Post Dev Q	Pre Dev Q	Qpost < Qpre	Qpost > Qpre	Qpost > 110% Qpre	Pass/Fail
34	1.03	2.32	3.07	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
35	1.00	2.31	3.07	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
36	0.97	2.29	3.06	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
37	0.95	2.27	3.05	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
38	0.92	2.24	3.02	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
39	0.90	2.23	2.98	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
40	0.88	2.22	2.97	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
41	0.86	2.18	2.97	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
42	0.84	2.18	2.96	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
43	0.82	2.16	2.79	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
44	0.80	2.15	2.68	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
45	0.78	2.14	2.60	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
46	0.77	2.13	2.53	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
47	0.75	2.06	2.52	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
48	0.74	1.98	2.52	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
49	0.72	1.96	2.50	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
50	0.71	1.94	2.49	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
51	0.69	1.87	2.49	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
52	0.68	1.83	2.48	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
53	0.67	1.80	2.47	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
54	0.66	1.77	2.47	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
55	0.64	1.76	2.46	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
56	0.63	1.68	2.46	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
57	0.62	1.64	2.46	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
58	0.61	1.64	2.45	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
59	0.60	1.63	2.44	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
60	0.59	1.60	2.41	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
61	0.58	1.59	2.40	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
62	0.57	1.58	2.40	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
63	0.56	1.55	2.39	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
64	0.55	1.54	2.39	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
65	0.55	1.54	2.37	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
66	0.54	1.54	2.35	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
67	0.53	1.53	2.35	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
68	0.52	1.52	2.34	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
69	0.51	1.52	2.34	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
70	0.51	1.51	2.33	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
71	0.50	1.44	2.27	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
72	0.49	1.43	2.27	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
73	0.49	1.41	2.23	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
74	0.48	1.40	2.15	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
75	0.47	1.39	2.15	TRUE	FALSE	FALSE	Pass- Qpost < Qpre

Post PT #	Rtn Prd (yrs)	Post Dev Q	Pre Dev Q	Qpost < Qpre	Qpost > Qpre	Qpost > 110% Qpre	Pass/Fail
76	0.47	1.39	2.13	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
77	0.46	1.38	2.07	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
78	0.46	1.37	2.06	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
79	0.45	1.36	2.06	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
80	0.44	1.35	2.02	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
81	0.44	1.34	2.00	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
82	0.43	1.28	1.99	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
83	0.43	1.28	1.98	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
84	0.42	1.28	1.90	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
85	0.42	1.19	1.86	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
86	0.41	1.17	1.85	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
87	0.41	1.15	1.82	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
88	0.40	1.13	1.81	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
89	0.40	1.12	1.79	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
90	0.40	1.07	1.78	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
91	0.39	1.07	1.78	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
92	0.39	1.05	1.77	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
93	0.38	1.05	1.77	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
94	0.38	1.01	1.77	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
95	0.38	0.99	1.77	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
96	0.37	0.98	1.77	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
97	0.37	0.97	1.75	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
98	0.36	0.97	1.75	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
99	0.36	0.97	1.75	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
100	0.36	0.97	1.74	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
101	0.35	0.96	1.74	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
102	0.35	0.95	1.73	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
103	0.35	0.94	1.72	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
104	0.34	0.94	1.70	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
105	0.34	0.94	1.69	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
106	0.34	0.92	1.69	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
107	0.33	0.91	1.69	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
108	0.33	0.91	1.68	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
109	0.33	0.90	1.67	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
110	0.32	0.88	1.66	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
111	0.32	0.87	1.64	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
112	0.32	0.86	1.64	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
113	0.32	0.86	1.63	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
114	0.31	0.86	1.63	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
115	0.31	0.85	1.62	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
116	0.31	0.85	1.61	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
117	0.31	0.84	1.61	TRUE	FALSE	FALSE	Pass- Qpost < Qpre

Post PT #	Rtn Prd (yrs)	Post Dev Q	Pre Dev Q	Qpost < Qpre	Qpost > Qpre	Qpost > 110% Qpre	Pass/Fail
118	0.30	0.83	1.61	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
119	0.30	0.82	1.60	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
120	0.30	0.81	1.59	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
121	0.30	0.81	1.58	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
122	0.29	0.81	1.57	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
123	0.29	0.81	1.56	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
124	0.29	0.78	1.56	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
125	0.29	0.78	1.55	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
126	0.28	0.76	1.54	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
127	0.28	0.75	1.53	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
128	0.28	0.74	1.52	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
129	0.28	0.72	1.52	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
130	0.28	0.68	1.51	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
131	0.27	0.68	1.50	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
132	0.27	0.67	1.48	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
133	0.27	0.66	1.47	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
134	0.27	0.64	1.47	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
135	0.27	0.64	1.45	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
136	0.26	0.62	1.44	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
137	0.26	0.60	1.43	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
138	0.26	0.56	1.43	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
139	0.26	0.56	1.38	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
140	0.26	0.55	1.37	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
141	0.25	0.52	1.34	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
142	0.25	0.51	1.32	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
143	0.25	0.49	1.30	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
144	0.25	0.49	1.30	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
145	0.25	0.47	1.28	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
146	0.25	0.46	1.27	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
147	0.24	0.45	1.23	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
148	0.24	0.44	1.23	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
149	0.24	0.44	1.22	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
150	0.24	0.44	1.20	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
151	0.24	0.44	1.19	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
152	0.24	0.44	1.17	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
153	0.23	0.44	1.17	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
154	0.23	0.43	1.15	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
155	0.23	0.43	1.15	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
156	0.23	0.43	1.14	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
157	0.23	0.42	1.14	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
158	0.23	0.42	1.14	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
159	0.23	0.40	1.13	TRUE	FALSE	FALSE	Pass- Qpost < Qpre

Post PT #	Rtn Prd (yrs)	Post Dev Q	Pre Dev Q	Qpost < Qpre	Qpost > Qpre	Qpost > 110% Qpre	Pass/Fail
160	0.22	0.40	1.13	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
161	0.22	0.39	1.13	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
162	0.22	0.39	1.11	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
163	0.22	0.39	1.11	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
164	0.22	0.39	1.11	TRUE	FALSE	FALSE	Pass- Qpost < Qpre
165	0.22	0.38	1.11	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
166	0.22	0.38	1.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
167	0.21	0.36	1.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
168	0.21	0.36	1.09	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
169	0.21	0.23	1.09	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
170	0.21	0.20	1.09	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
171	0.21	0.20	1.06	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
172	0.21	0.19	1.06	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
173	0.21	0.16	1.06	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
174	0.21	0.16	1.06	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
175	0.21	0.15	1.05	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
176	0.20	0.15	1.05	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
177	0.20	0.15	1.05	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
178	0.20	0.15	1.04	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
179	0.20	0.14	1.03	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
180	0.20	0.14	1.03	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
181	0.20	0.14	1.03	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
182	0.20	0.14	1.03	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
183	0.20	0.14	1.02	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
184	0.20	0.14	1.02	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
185	0.19	0.14	1.01	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
186	0.19	0.14	1.01	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
187	0.19	0.14	1.01	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
188	0.19	0.14	1.00	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
189	0.19	0.13	1.00	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
190	0.19	0.13	0.99	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
191	0.19	0.13	0.99	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
192	0.19	0.13	0.99	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
193	0.19	0.13	0.99	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
194	0.19	0.13	0.98	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
195	0.18	0.13	0.98	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
196	0.18	0.13	0.97	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
197	0.18	0.13	0.96	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
198	0.18	0.13	0.96	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
199	0.18	0.13	0.96	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
200	0.18	0.13	0.96	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
201	0.18	0.13	0.96	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold

Post PT #	Rtn Prd (yrs)	Post Dev Q	Pre Dev Q	Qpost < Qpre	Qpost > Qpre	Qpost > 110% Qpre	Pass/Fail
202	0.18	0.13	0.96	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
203	0.18	0.13	0.95	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
204	0.18	0.13	0.95	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
205	0.18	0.13	0.95	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
206	0.17	0.13	0.91	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
207	0.17	0.13	0.91	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
208	0.17	0.13	0.90	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
209	0.17	0.13	0.89	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
210	0.17	0.12	0.89	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
211	0.17	0.12	0.87	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
212	0.17	0.12	0.87	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
213	0.17	0.12	0.86	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
214	0.17	0.12	0.84	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
215	0.17	0.12	0.84	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
216	0.17	0.12	0.82	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
217	0.17	0.12	0.81	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
218	0.16	0.12	0.79	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
219	0.16	0.12	0.79	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
220	0.16	0.12	0.77	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
221	0.16	0.12	0.76	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
222	0.16	0.12	0.75	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
223	0.16	0.12	0.75	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
224	0.16	0.12	0.74	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
225	0.16	0.12	0.72	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
226	0.16	0.12	0.72	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
227	0.16	0.12	0.70	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
228	0.16	0.12	0.70	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
229	0.16	0.12	0.70	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
230	0.16	0.11	0.61	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
231	0.16	0.11	0.60	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
232	0.16	0.11	0.60	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
233	0.15	0.11	0.57	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
234	0.15	0.11	0.56	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
235	0.15	0.11	0.56	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
236	0.15	0.11	0.53	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
237	0.15	0.11	0.52	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
238	0.15	0.11	0.52	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
239	0.15	0.11	0.51	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
240	0.15	0.11	0.50	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
241	0.15	0.11	0.50	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
242	0.15	0.11	0.47	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
243	0.15	0.10	0.47	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold

Post PT #	Rtn Prd (yrs)	Post Dev Q	Pre Dev Q	Qpost < Qpre	Qpost > Qpre	Qpost > 110% Qpre	Pass/Fail
244	0.15	0.10	0.47	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
245	0.15	0.10	0.46	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
246	0.15	0.10	0.46	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
247	0.15	0.10	0.46	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
248	0.15	0.10	0.46	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
249	0.14	0.10	0.45	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
250	0.14	0.10	0.45	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
251	0.14	0.10	0.45	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
252	0.14	0.10	0.44	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
253	0.14	0.10	0.44	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
254	0.14	0.10	0.43	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
255	0.14	0.10	0.43	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
256	0.14	0.10	0.42	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
257	0.14	0.10	0.42	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
258	0.14	0.10	0.40	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
259	0.14	0.10	0.39	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
260	0.14	0.10	0.39	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
261	0.14	0.10	0.38	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
262	0.14	0.10	0.38	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
263	0.14	0.10	0.35	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
264	0.14	0.10	0.35	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
265	0.14	0.10	0.32	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
266	0.14	0.10	0.32	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
267	0.13	0.10	0.31	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
268	0.13	0.09	0.31	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
269	0.13	0.09	0.30	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
270	0.13	0.09	0.30	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
271	0.13	0.09	0.29	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
272	0.13	0.09	0.29	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
273	0.13	0.09	0.29	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
274	0.13	0.09	0.29	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
275	0.13	0.09	0.28	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
276	0.13	0.09	0.28	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
277	0.13	0.09	0.28	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
278	0.13	0.09	0.28	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
279	0.13	0.09	0.28	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
280	0.13	0.09	0.27	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
281	0.13	0.09	0.27	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
282	0.13	0.09	0.26	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
283	0.13	0.09	0.26	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
284	0.13	0.09	0.25	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
285	0.13	0.09	0.25	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold

Post PT #	Rtn Prd (yrs)	Post Dev Q	Pre Dev Q	Qpost < Qpre	Qpost > Qpre	Qpost > 110% Qpre	Pass/Fail
286	0.13	0.08	0.25	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
287	0.13	0.08	0.25	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
288	0.13	0.08	0.25	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
289	0.12	0.08	0.23	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
290	0.12	0.08	0.23	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
291	0.12	0.08	0.23	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
292	0.12	0.08	0.23	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
293	0.12	0.08	0.22	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
294	0.12	0.08	0.22	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
295	0.12	0.08	0.22	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
296	0.12	0.08	0.21	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
297	0.12	0.08	0.21	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
298	0.12	0.08	0.21	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
299	0.12	0.08	0.21	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
300	0.12	0.08	0.21	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
301	0.12	0.08	0.20	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
302	0.12	0.08	0.20	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
303	0.12	0.08	0.19	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
304	0.12	0.08	0.19	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
305	0.12	0.08	0.19	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
306	0.12	0.08	0.19	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
307	0.12	0.08	0.19	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
308	0.12	0.08	0.19	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
309	0.12	0.08	0.19	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
310	0.12	0.08	0.19	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
311	0.12	0.08	0.19	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
312	0.12	0.08	0.19	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
313	0.12	0.08	0.19	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
314	0.11	0.08	0.19	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
315	0.11	0.08	0.19	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
316	0.11	0.07	0.19	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
317	0.11	0.07	0.19	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
318	0.11	0.07	0.19	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
319	0.11	0.07	0.19	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
320	0.11	0.07	0.19	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
321	0.11	0.07	0.19	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
322	0.11	0.07	0.19	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
323	0.11	0.07	0.19	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
324	0.11	0.07	0.19	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
325	0.11	0.07	0.19	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
326	0.11	0.07	0.19	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
327	0.11	0.07	0.19	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold

Post PT #	Rtn Prd (yrs)	Post Dev Q	Pre Dev Q	Qpost < Qpre	Qpost > Qpre	Qpost > 110% Qpre	Pass/Fail
328	0.11	0.07	0.19	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
329	0.11	0.07	0.19	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
330	0.11	0.07	0.19	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
331	0.11	0.07	0.19	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
332	0.11	0.07	0.19	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
333	0.11	0.07	0.19	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
334	0.11	0.07	0.19	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
335	0.11	0.07	0.19	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
336	0.11	0.07	0.19	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
337	0.11	0.07	0.19	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
338	0.11	0.07	0.19	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
339	0.11	0.07	0.19	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
340	0.11	0.07	0.19	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
341	0.11	0.07	0.19	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
342	0.11	0.07	0.19	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
343	0.11	0.07	0.19	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
344	0.10	0.07	0.19	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
345	0.10	0.07	0.19	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
346	0.10	0.07	0.19	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
347	0.10	0.06	0.17	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
348	0.10	0.06	0.17	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
349	0.10	0.06	0.17	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
350	0.10	0.06	0.17	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
351	0.10	0.06	0.15	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
352	0.10	0.06	0.15	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
353	0.10	0.06	0.15	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
354	0.10	0.06	0.14	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
355	0.10	0.06	0.14	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
356	0.10	0.06	0.14	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
357	0.10	0.06	0.14	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
358	0.10	0.06	0.12	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
359	0.10	0.06	0.12	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
360	0.10	0.06	0.12	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
361	0.10	0.06	0.11	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
362	0.10	0.06	0.11	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
363	0.10	0.06	0.11	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
364	0.10	0.06	0.11	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
365	0.10	0.06	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
366	0.10	0.06	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
367	0.10	0.06	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
368	0.10	0.06	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
369	0.10	0.06	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold

Post PT #	Rtn Prd (yrs)	Post Dev Q	Pre Dev Q	Qpost < Qpre	Qpost > Qpre	Qpost > 110% Qpre	Pass/Fail
370	0.10	0.06	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
371	0.10	0.06	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
372	0.10	0.06	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
373	0.10	0.06	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
374	0.10	0.06	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
375	0.10	0.06	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
376	0.10	0.06	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
377	0.10	0.06	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
378	0.10	0.06	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
379	0.10	0.06	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
380	0.09	0.06	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
381	0.09	0.06	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
382	0.09	0.06	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
383	0.09	0.06	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
384	0.09	0.06	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
385	0.09	0.06	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
386	0.09	0.06	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
387	0.09	0.06	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
388	0.09	0.06	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
389	0.09	0.06	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
390	0.09	0.06	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
391	0.09	0.06	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
392	0.09	0.06	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
393	0.09	0.06	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
394	0.09	0.06	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
395	0.09	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
396	0.09	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
397	0.09	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
398	0.09	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
399	0.09	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
400	0.09	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
401	0.09	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
402	0.09	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
403	0.09	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
404	0.09	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
405	0.09	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
406	0.09	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
407	0.09	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
408	0.09	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
409	0.09	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
410	0.09	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
411	0.09	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold

Post PT #	Rtn Prd (yrs)	Post Dev Q	Pre Dev Q	Qpost < Qpre	Qpost > Qpre	Qpost > 110% Qpre	Pass/Fail
412	0.09	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
413	0.09	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
414	0.09	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
415	0.09	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
416	0.09	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
417	0.09	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
418	0.09	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
419	0.09	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
420	0.09	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
421	0.09	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
422	0.09	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
423	0.09	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
424	0.09	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
425	0.09	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
426	0.08	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
427	0.08	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
428	0.08	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
429	0.08	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
430	0.08	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
431	0.08	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
432	0.08	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
433	0.08	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
434	0.08	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
435	0.08	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
436	0.08	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
437	0.08	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
438	0.08	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
439	0.08	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
440	0.08	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
441	0.08	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
442	0.08	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
443	0.08	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
444	0.08	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
445	0.08	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
446	0.08	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
447	0.08	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
448	0.08	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
449	0.08	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
450	0.08	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
451	0.08	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
452	0.08	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
453	0.08	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold

Post PT #	Rtn Prd (yrs)	Post Dev Q	Pre Dev Q	Qpost < Qpre	Qpost > Qpre	Qpost > 110% Qpre	Pass/Fail
454	0.08	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
455	0.08	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
456	0.08	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
457	0.08	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
458	0.08	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
459	0.08	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
460	0.08	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
461	0.08	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
462	0.08	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
463	0.08	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
464	0.08	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
465	0.08	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
466	0.08	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
467	0.08	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
468	0.08	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
469	0.08	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
470	0.08	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
471	0.08	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
472	0.08	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
473	0.08	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
474	0.08	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
475	0.08	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
476	0.08	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
477	0.08	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
478	0.08	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
479	0.08	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
480	0.08	0.05	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
481	0.08	0.04	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
482	0.08	0.04	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
483	0.07	0.04	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
484	0.07	0.04	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
485	0.07	0.04	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
486	0.07	0.04	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
487	0.07	0.04	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
488	0.07	0.04	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
489	0.07	0.04	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
490	0.07	0.04	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
491	0.07	0.04	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
492	0.07	0.04	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
493	0.07	0.04	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
494	0.07	0.04	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
495	0.07	0.04	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold

Post PT #	Rtn Prd (yrs)	Post Dev Q	Pre Dev Q	Qpost < Qpre	Qpost > Qpre	Qpost > 110% Qpre	Pass/Fail
496	0.07	0.04	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
497	0.07	0.04	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
498	0.07	0.04	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
499	0.07	0.04	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
500	0.07	0.04	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
501	0.07	0.04	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
502	0.07	0.04	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
503	0.07	0.04	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
504	0.07	0.04	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
505	0.07	0.04	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
506	0.07	0.04	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
507	0.07	0.04	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
508	0.07	0.04	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold
509	0.07	0.03	0.10	FALSE	FALSE	FALSE	Pass- Qpost Below Flow Control Threshold

SWMM.out file name: V:\17\17053\engineering\TM\Current\SWMM\17053 Pre-development.out
SWMM.out time stamp: 8/2/2019 2:00:05 PM

Q10: 5.703
Q5: 4.600
Q2: 3.860

Peak Flow Statistics Table Values

Rank	Start Date	End Date	Duration	Peak	Frequency	Return Period
1	1993/02/07 20:00:00	1993/02/08 20:00:00	25	7.642	0.14%	36
2	1978/01/09 12:00:00	1978/01/11 06:00:00	43	5.77	0.28%	18
3	1978/01/03 18:00:00	1978/01/05 20:00:00	51	5.737	0.42%	12
4	1982/11/29 01:00:00	1982/11/30 04:00:00	28	5.685	0.57%	9
5	1980/01/26 19:00:00	1980/01/30 12:00:00	90	5.161	0.71%	7.2
6	1993/01/06 01:00:00	1993/01/08 10:00:00	58	5.088	0.85%	6
7	1995/02/13 19:00:00	1995/02/14 18:00:00	24	4.62	0.99%	5.14
8	1993/01/15 08:00:00	1993/01/18 21:00:00	86	4.532	1.13%	4.5
9	1998/02/22 03:00:00	1998/02/24 04:00:00	50	4.527	1.27%	4
10	1980/02/12 11:00:00	1980/02/21 10:00:00	216	4.463	1.42%	3.6
11	1998/01/09 11:00:00	1998/01/10 06:00:00	20	4.44	1.56%	3.27
12	1995/01/03 09:00:00	1995/01/05 01:00:00	41	4.425	1.70%	3
13	1976/09/10 00:00:00	1976/09/11 12:00:00	37	4.413	1.84%	2.77
14	1997/12/06 06:00:00	1997/12/08 06:00:00	49	4.35	1.98%	2.57
15	1992/03/20 16:00:00	1992/03/21 10:00:00	19	4.216	2.12%	2.4
16	1974/12/04 04:00:00	1974/12/04 15:00:00	12	4.102	2.27%	2.25
17	1988/01/05 13:00:00	1988/01/05 16:00:00	4	4.092	2.41%	2.12
18	2005/01/07 11:00:00	2005/01/11 14:00:00	100	3.86	2.55%	2
19	1978/01/16 17:00:00	1978/01/16 22:00:00	6	3.849	2.69%	1.9
20	1978/02/08 20:00:00	1978/02/11 17:00:00	70	3.8	2.83%	1.8
21	1983/02/26 09:00:00	1983/03/03 12:00:00	124	3.793	2.97%	1.71
22	1986/03/15 20:00:00	1986/03/16 20:00:00	25	3.759	3.12%	1.64
23	1982/01/20 03:00:00	1982/01/21 11:00:00	33	3.756	3.26%	1.57
24	2004/10/17 02:00:00	2004/10/20 23:00:00	94	3.701	3.40%	1.5
25	1976/12/30 12:00:00	1976/12/31 18:00:00	31	3.382	3.54%	1.44
26	1971/12/24 05:00:00	1971/12/26 11:00:00	55	3.37	3.68%	1.39
27	1974/01/04 00:00:00	1974/01/08 05:00:00	102	3.19	3.82%	1.33
28	1983/01/28 23:00:00	1983/01/29 03:00:00	5	3.177	3.97%	1.29
29	1994/02/07 02:00:00	1994/02/08 13:00:00	36	3.157	4.11%	1.24
30	2000/02/20 07:00:00	2000/02/21 20:00:00	38	3.144	4.25%	1.2
31	1995/01/10 16:00:00	1995/01/12 15:00:00	48	3.136	4.39%	1.16
32	1992/02/12 07:00:00	1992/02/13 12:00:00	30	3.111	4.53%	1.13
33	1978/01/19 03:00:00	1978/01/19 13:00:00	11	3.091	4.67%	1.09
34	1986/02/13 10:00:00	1986/02/16 13:00:00	76	3.081	4.82%	1.06
35	1992/02/15 10:00:00	1992/02/16 13:00:00	28	3.075	4.96%	1.03
36	1992/03/22 14:00:00	1992/03/23 12:00:00	23	3.071	5.10%	1
37	1986/03/10 04:00:00	1986/03/12 12:00:00	57	3.063	5.24%	0.97
38	1979/01/05 07:00:00	1979/01/06 17:00:00	35	3.046	5.38%	0.95
39	1982/12/22 13:00:00	1982/12/23 00:00:00	12	3.018	5.52%	0.92

Rank	Start Date	End Date	Duration	Peak	Frequency	Return Period
40	1983/12/24 19:00:00	1983/12/26 02:00:00	32	2.977	5.67%	0.9
41	1998/02/03 10:00:00	1998/02/04 12:00:00	27	2.972	5.81%	0.88
42	1980/01/07 13:00:00	1980/01/09 18:00:00	54	2.966	5.95%	0.86
43	1996/12/09 15:00:00	1996/12/11 08:00:00	42	2.965	6.09%	0.84
44	2004/12/28 05:00:00	2004/12/30 09:00:00	53	2.79	6.23%	0.82
45	1973/01/16 16:00:00	1973/01/17 07:00:00	16	2.681	6.37%	0.8
46	1976/02/04 04:00:00	1976/02/10 07:00:00	148	2.602	6.52%	0.78
47	1998/02/06 11:00:00	1998/02/09 00:00:00	62	2.53	6.66%	0.77
48	1983/03/24 01:00:00	1983/03/24 12:00:00	12	2.52	6.80%	0.75
49	1982/03/16 04:00:00	1982/03/18 20:00:00	65	2.515	6.94%	0.74
50	1979/01/30 17:00:00	1979/02/02 16:00:00	72	2.502	7.08%	0.72
51	1991/03/25 05:00:00	1991/03/27 11:00:00	55	2.493	7.22%	0.71
52	1995/03/05 00:00:00	1995/03/06 00:00:00	25	2.492	7.37%	0.69
53	2001/01/10 22:00:00	2001/01/12 08:00:00	35	2.478	7.51%	0.68
54	1993/01/12 15:00:00	1993/01/14 05:00:00	39	2.474	7.65%	0.67
55	1983/02/07 02:00:00	1983/02/08 13:00:00	36	2.468	7.79%	0.66
56	1978/01/14 14:00:00	1978/01/15 12:00:00	23	2.464	7.93%	0.64
57	1985/11/29 08:00:00	1985/11/30 07:00:00	24	2.462	8.07%	0.63
58	1977/01/02 22:00:00	1977/01/03 06:00:00	9	2.455	8.22%	0.62
59	1995/03/11 00:00:00	1995/03/11 22:00:00	23	2.455	8.36%	0.61
60	1984/12/26 14:00:00	1984/12/28 15:00:00	50	2.44	8.50%	0.6
61	2005/01/03 05:00:00	2005/01/04 08:00:00	28	2.405	8.64%	0.59
62	1991/02/27 13:00:00	1991/03/01 14:00:00	50	2.404	8.78%	0.58
63	1982/04/01 09:00:00	1982/04/01 17:00:00	9	2.397	8.92%	0.57
64	1993/02/18 12:00:00	1993/02/20 14:00:00	51	2.391	9.07%	0.56
65	2005/02/18 05:00:00	2005/02/23 09:00:00	125	2.386	9.21%	0.55
66	2003/02/25 01:00:00	2003/02/27 12:00:00	60	2.37	9.35%	0.55
67	2005/03/22 19:00:00	2005/03/23 01:00:00	7	2.354	9.49%	0.54
68	1973/02/11 00:00:00	1973/02/13 07:00:00	56	2.35	9.63%	0.53
69	1992/03/26 20:00:00	1992/03/27 16:00:00	21	2.343	9.77%	0.52
70	1983/01/27 07:00:00	1983/01/27 18:00:00	12	2.338	9.92%	0.51
71	1994/02/17 10:00:00	1994/02/19 02:00:00	41	2.326	10.06%	0.51
72	2004/10/27 01:00:00	2004/10/28 10:00:00	34	2.273	10.20%	0.5
73	1972/11/14 11:00:00	1972/11/14 14:00:00	4	2.266	10.34%	0.49
74	1980/03/02 19:00:00	1980/03/03 13:00:00	19	2.235	10.48%	0.49
75	1978/11/21 15:00:00	1978/11/21 19:00:00	5	2.153	10.62%	0.48
76	2000/04/17 14:00:00	2000/04/18 10:00:00	21	2.147	10.76%	0.47
77	1995/03/03 04:00:00	1995/03/03 11:00:00	8	2.125	10.91%	0.47
78	1983/11/24 22:00:00	1983/11/25 00:00:00	3	2.074	11.05%	0.46
79	1985/11/11 02:00:00	1985/11/12 09:00:00	32	2.056	11.19%	0.46
80	1997/01/15 18:00:00	1997/01/15 19:00:00	2	2.055	11.33%	0.45
81	1988/01/17 04:00:00	1988/01/17 21:00:00	18	2.016	11.47%	0.44
82	1977/05/07 20:00:00	1977/05/09 13:00:00	42	2	11.61%	0.44
83	1986/11/17 12:00:00	1986/11/18 04:00:00	17	1.991	11.76%	0.43
84	2003/03/15 11:00:00	2003/03/16 23:00:00	37	1.98	11.90%	0.43
85	1972/12/04 09:00:00	1972/12/04 17:00:00	9	1.897	12.04%	0.42
86	1981/01/28 06:00:00	1981/01/30 07:00:00	50	1.859	12.18%	0.42

Rank	Start Date	End Date	Duration	Peak	Frequency	Return Period
87	1977/12/28 02:00:00	1977/12/29 07:00:00	30	1.845	12.32%	0.41
88	1991/03/19 00:00:00	1991/03/21 00:00:00	49	1.819	12.46%	0.41
89	1992/12/07 08:00:00	1992/12/07 16:00:00	9	1.815	12.61%	0.4
90	1982/03/14 04:00:00	1982/03/14 19:00:00	16	1.793	12.75%	0.4
91	1979/01/14 15:00:00	1979/01/15 21:00:00	31	1.781	12.89%	0.4
92	1992/01/05 08:00:00	1992/01/06 02:00:00	19	1.777	13.03%	0.39
93	2001/02/25 07:00:00	2001/02/28 18:00:00	84	1.774	13.17%	0.39
94	1982/01/01 05:00:00	1982/01/02 09:00:00	29	1.772	13.31%	0.38
95	1978/02/27 06:00:00	1978/03/02 14:00:00	81	1.769	13.46%	0.38
96	1991/12/29 15:00:00	1991/12/30 03:00:00	13	1.768	13.60%	0.38
97	1988/12/21 02:00:00	1988/12/21 07:00:00	6	1.766	13.74%	0.37
98	2003/12/25 02:00:00	2003/12/25 20:00:00	19	1.753	13.88%	0.37
99	2000/02/23 15:00:00	2000/02/23 18:00:00	4	1.751	14.02%	0.36
100	1998/02/14 11:00:00	1998/02/14 18:00:00	8	1.746	14.16%	0.36
101	1995/01/07 15:00:00	1995/01/08 11:00:00	21	1.739	14.31%	0.36
102	1996/01/31 04:00:00	1996/02/01 02:00:00	23	1.737	14.45%	0.35
103	1982/02/09 19:00:00	1982/02/10 22:00:00	28	1.726	14.59%	0.35
104	1979/03/16 14:00:00	1979/03/20 04:00:00	87	1.72	14.73%	0.35
105	1997/01/12 11:00:00	1997/01/14 03:00:00	41	1.695	14.87%	0.34
106	1984/12/18 08:00:00	1984/12/20 03:00:00	44	1.69	15.01%	0.34
107	1990/02/17 05:00:00	1990/02/18 09:00:00	29	1.688	15.16%	0.34
108	1990/01/16 23:00:00	1990/01/17 10:00:00	12	1.688	15.30%	0.33
109	1984/12/16 02:00:00	1984/12/16 13:00:00	12	1.685	15.44%	0.33
110	2003/02/11 04:00:00	2003/02/13 09:00:00	54	1.667	15.58%	0.33
111	1978/03/11 07:00:00	1978/03/11 23:00:00	17	1.662	15.72%	0.32
112	1986/03/08 15:00:00	1986/03/08 20:00:00	6	1.644	15.86%	0.32
113	1996/11/21 15:00:00	1996/11/22 07:00:00	17	1.638	16.01%	0.32
114	1980/03/06 02:00:00	1980/03/06 14:00:00	13	1.634	16.15%	0.32
115	1979/02/21 01:00:00	1979/02/22 01:00:00	25	1.63	16.29%	0.31
116	2001/02/11 13:00:00	2001/02/14 00:00:00	60	1.622	16.43%	0.31
117	1987/12/18 12:00:00	1987/12/18 12:00:00	1	1.612	16.57%	0.31
118	1987/12/16 12:00:00	1987/12/17 08:00:00	21	1.612	16.71%	0.31
119	1998/05/12 14:00:00	1998/05/13 14:00:00	25	1.609	16.86%	0.3
120	1987/10/11 12:00:00	1987/10/12 15:00:00	28	1.6	17.00%	0.3
121	2003/04/14 09:00:00	2003/04/15 04:00:00	20	1.588	17.14%	0.3
122	1998/03/24 21:00:00	1998/03/29 03:00:00	103	1.575	17.28%	0.3
123	1973/11/22 23:00:00	1973/11/23 01:00:00	3	1.573	17.42%	0.29
124	1979/11/07 18:00:00	1979/11/08 04:00:00	11	1.561	17.56%	0.29
125	1973/03/20 05:00:00	1973/03/20 19:00:00	15	1.557	17.71%	0.29
126	1996/02/27 20:00:00	1996/02/28 01:00:00	6	1.553	17.85%	0.29
127	1993/02/23 18:00:00	1993/02/24 05:00:00	12	1.542	17.99%	0.28
128	1983/09/30 04:00:00	1983/10/01 11:00:00	32	1.529	18.13%	0.28
129	1988/12/24 19:00:00	1988/12/25 00:00:00	6	1.524	18.27%	0.28
130	1983/04/20 02:00:00	1983/04/21 01:00:00	24	1.523	18.41%	0.28
131	1998/05/04 11:00:00	1998/05/06 04:00:00	42	1.506	18.56%	0.28
132	1986/09/24 03:00:00	1986/09/25 11:00:00	33	1.498	18.70%	0.27
133	1987/01/04 12:00:00	1987/01/05 03:00:00	16	1.485	18.84%	0.27

Rank	Start Date	End Date	Duration	Peak	Frequency	Return Period
134	1990/04/16 18:00:00	1990/04/17 01:00:00	8	1.469	18.98%	0.27
135	1978/09/05 14:00:00	1978/09/06 03:00:00	14	1.467	19.12%	0.27
136	1975/03/08 05:00:00	1975/03/08 23:00:00	19	1.451	19.26%	0.27
137	2005/05/05 21:00:00	2005/05/06 05:00:00	9	1.441	19.41%	0.26
138	1978/03/04 02:00:00	1978/03/05 08:00:00	31	1.434	19.55%	0.26
139	1971/12/22 04:00:00	1971/12/22 22:00:00	19	1.432	19.69%	0.26
140	1977/03/24 17:00:00	1977/03/25 16:00:00	24	1.376	19.83%	0.26
141	2001/11/24 16:00:00	2001/11/24 20:00:00	5	1.369	19.97%	0.26
142	1973/01/18 20:00:00	1973/01/19 03:00:00	8	1.337	20.11%	0.25
143	1976/03/01 09:00:00	1976/03/03 12:00:00	52	1.321	20.25%	0.25
144	1984/09/16 14:00:00	1984/09/16 14:00:00	1	1.302	20.40%	0.25
145	1986/10/09 18:00:00	1986/10/10 01:00:00	8	1.297	20.54%	0.25
146	1998/04/11 00:00:00	1998/04/11 08:00:00	9	1.279	20.68%	0.25
147	1973/03/11 10:00:00	1973/03/11 16:00:00	7	1.27	20.82%	0.25
148	1975/03/05 12:00:00	1975/03/06 16:00:00	29	1.229	20.96%	0.24
149	1984/11/13 05:00:00	1984/11/13 09:00:00	5	1.225	21.10%	0.24
150	2006/03/28 07:00:00	2006/03/29 05:00:00	23	1.218	21.25%	0.24
151	1983/03/21 04:00:00	1983/03/21 15:00:00	12	1.199	21.39%	0.24
152	1978/02/12 17:00:00	1978/02/13 11:00:00	19	1.188	21.53%	0.24
153	1977/12/25 18:00:00	1977/12/26 22:00:00	29	1.17	21.67%	0.24
154	1997/01/25 16:00:00	1997/01/26 11:00:00	20	1.169	21.81%	0.23
155	1995/01/24 01:00:00	1995/01/26 04:00:00	52	1.151	21.95%	0.23
156	1982/01/05 05:00:00	1982/01/05 17:00:00	13	1.146	22.10%	0.23
157	1971/12/07 00:00:00	1971/12/07 01:00:00	2	1.139	22.24%	0.23
158	1977/01/05 21:00:00	1977/01/08 10:00:00	62	1.138	22.38%	0.23
159	1978/12/16 23:00:00	1978/12/19 07:00:00	57	1.135	22.52%	0.23
160	2004/02/26 00:00:00	2004/02/26 10:00:00	11	1.135	22.66%	0.23
161	1974/03/07 14:00:00	1974/03/09 00:00:00	35	1.135	22.80%	0.22
162	2004/02/21 23:00:00	2004/02/23 04:00:00	30	1.128	22.95%	0.22
163	1993/01/10 03:00:00	1993/01/10 17:00:00	15	1.112	23.09%	0.22
164	2001/03/09 21:00:00	2001/03/10 05:00:00	9	1.109	23.23%	0.22
165	1981/02/28 16:00:00	1981/03/02 19:00:00	52	1.108	23.37%	0.22
166	1998/02/16 22:00:00	1998/02/17 07:00:00	10	1.106	23.51%	0.22
167	1982/03/28 21:00:00	1982/03/30 16:00:00	44	1.102	23.65%	0.22
168	2005/02/10 22:00:00	2005/02/12 11:00:00	38	1.097	23.80%	0.21
169	1987/11/04 15:00:00	1987/11/06 00:00:00	34	1.094	23.94%	0.21
170	1979/03/27 03:00:00	1979/03/29 03:00:00	49	1.093	24.08%	0.21
171	1987/01/06 16:00:00	1987/01/07 00:00:00	9	1.09	24.22%	0.21
172	1978/02/07 16:00:00	1978/02/07 20:00:00	5	1.064	24.36%	0.21
173	1994/03/24 21:00:00	1994/03/25 02:00:00	6	1.063	24.50%	0.21
174	1992/02/10 00:00:00	1992/02/10 09:00:00	10	1.06	24.65%	0.21
175	1999/01/25 04:00:00	1999/01/26 22:00:00	43	1.058	24.79%	0.21
176	1988/04/19 23:00:00	1988/04/21 09:00:00	35	1.049	24.93%	0.21
177	1996/03/12 17:00:00	1996/03/13 12:00:00	20	1.046	25.07%	0.2
178	2000/03/08 12:00:00	2000/03/08 15:00:00	4	1.045	25.21%	0.2
179	1995/04/18 08:00:00	1995/04/18 13:00:00	6	1.038	25.35%	0.2
180	2002/12/16 16:00:00	2002/12/17 14:00:00	23	1.033	25.50%	0.2

Rank	Start Date	End Date	Duration	Peak	Frequency	Return Period
181	1978/03/30 15:00:00	1978/03/31 05:00:00	15	1.029	25.64%	0.2
182	2000/03/05 00:00:00	2000/03/06 12:00:00	37	1.029	25.78%	0.2
183	1971/12/27 11:00:00	1971/12/28 13:00:00	27	1.026	25.92%	0.2
184	1975/03/10 09:00:00	1975/03/11 14:00:00	30	1.023	26.06%	0.2
185	1986/01/30 03:00:00	1986/01/30 13:00:00	11	1.022	26.20%	0.2
186	1983/01/24 16:00:00	1983/01/25 13:00:00	22	1.014	26.35%	0.19
187	1985/11/24 15:00:00	1985/11/26 12:00:00	46	1.01	26.49%	0.19
188	1994/02/20 09:00:00	1994/02/20 15:00:00	7	1.005	26.63%	0.19
189	1990/01/13 04:00:00	1990/01/14 06:00:00	27	1.001	26.77%	0.19
190	1985/02/02 08:00:00	1985/02/02 17:00:00	10	0.996	26.91%	0.19
191	2005/04/28 05:00:00	2005/04/28 10:00:00	6	0.993	27.05%	0.19
192	1993/11/14 07:00:00	1993/11/14 08:00:00	2	0.992	27.20%	0.19
193	2006/02/27 17:00:00	2006/02/28 07:00:00	15	0.991	27.34%	0.19
194	1975/04/08 00:00:00	1975/04/09 02:00:00	27	0.986	27.48%	0.19
195	2004/12/31 13:00:00	2004/12/31 15:00:00	3	0.985	27.62%	0.19
196	1982/11/09 04:00:00	1982/11/11 03:00:00	48	0.98	27.76%	0.18
197	1983/01/22 23:00:00	1983/01/23 03:00:00	5	0.971	27.90%	0.18
198	1994/04/25 14:00:00	1994/04/26 17:00:00	28	0.961	28.05%	0.18
199	2000/02/12 04:00:00	2000/02/14 08:00:00	53	0.96	28.19%	0.18
200	1980/12/04 08:00:00	1980/12/05 06:00:00	23	0.96	28.33%	0.18
201	1985/02/09 03:00:00	1985/02/09 13:00:00	11	0.96	28.47%	0.18
202	1998/11/29 06:00:00	1998/11/29 20:00:00	15	0.958	28.61%	0.18
203	1977/08/15 18:00:00	1977/08/17 20:00:00	51	0.958	28.75%	0.18
204	1989/01/05 18:00:00	1989/01/06 02:00:00	9	0.952	28.90%	0.18
205	1995/03/23 05:00:00	1995/03/23 10:00:00	6	0.952	29.04%	0.18
206	1998/12/07 04:00:00	1998/12/07 05:00:00	2	0.946	29.18%	0.18
207	2004/11/21 03:00:00	2004/11/21 09:00:00	7	0.914	29.32%	0.17
208	1999/02/04 10:00:00	1999/02/05 09:00:00	24	0.909	29.46%	0.17
209	1992/03/02 04:00:00	1992/03/02 21:00:00	18	0.903	29.60%	0.17
210	1996/02/20 06:00:00	1996/02/22 00:00:00	43	0.893	29.75%	0.17
211	1973/03/06 11:00:00	1973/03/07 00:00:00	14	0.873	29.89%	0.17
212	2005/02/24 19:00:00	2005/02/25 10:00:00	16	0.87	30.03%	0.17
213	1978/04/06 23:00:00	1978/04/07 04:00:00	6	0.869	30.17%	0.17
214	1976/04/12 21:00:00	1976/04/13 06:00:00	10	0.857	30.31%	0.17
215	1985/01/28 15:00:00	1985/01/28 19:00:00	5	0.845	30.45%	0.17
216	1989/01/04 02:00:00	1989/01/04 11:00:00	10	0.822	30.59%	0.17
217	1983/03/17 04:00:00	1983/03/19 10:00:00	55	0.817	30.74%	0.17
218	2005/01/28 16:00:00	2005/01/29 00:00:00	9	0.814	30.88%	0.17
219	1983/11/11 17:00:00	1983/11/13 02:00:00	34	0.795	31.02%	0.16
220	1984/11/24 15:00:00	1984/11/24 22:00:00	8	0.776	31.16%	0.16
221	1996/02/25 08:00:00	1996/02/26 02:00:00	19	0.771	31.30%	0.16
222	1998/04/05 14:00:00	1998/04/06 16:00:00	27	0.764	31.44%	0.16
223	2000/11/25 05:00:00	2000/11/25 05:00:00	1	0.748	31.59%	0.16
224	1981/03/19 20:00:00	1981/03/20 05:00:00	10	0.739	31.73%	0.16
225	1978/11/13 19:00:00	1978/11/13 21:00:00	3	0.737	31.87%	0.16
226	1974/03/02 05:00:00	1974/03/03 12:00:00	32	0.719	32.01%	0.16
227	1992/05/22 16:00:00	1992/05/22 19:00:00	4	0.704	32.15%	0.16

Rank	Start Date	End Date	Duration	Peak	Frequency	Return Period
228	1989/02/04 01:00:00	1989/02/04 16:00:00	16	0.704	32.29%	0.16
229	1993/01/31 00:00:00	1993/01/31 02:00:00	3	0.696	32.44%	0.16
230	1992/12/29 13:00:00	1992/12/30 02:00:00	14	0.68	32.58%	0.16
231	1981/02/08 17:00:00	1981/02/09 06:00:00	14	0.615	32.72%	0.16
232	1987/03/05 23:00:00	1987/03/06 15:00:00	17	0.596	32.86%	0.16
233	1995/04/16 06:00:00	1995/04/16 11:00:00	6	0.595	33.00%	0.16
234	1983/04/29 01:00:00	1983/04/30 01:00:00	25	0.566	33.14%	0.15
235	2001/04/07 08:00:00	2001/04/07 15:00:00	8	0.556	33.29%	0.15
236	1983/11/20 08:00:00	1983/11/20 20:00:00	13	0.55	33.43%	0.15
237	1991/03/13 16:00:00	1991/03/13 21:00:00	6	0.527	33.57%	0.15
238	1994/02/03 21:00:00	1994/02/05 04:00:00	32	0.517	33.71%	0.15
239	1999/04/07 03:00:00	1999/04/07 13:00:00	11	0.515	33.85%	0.15
240	2001/04/20 23:00:00	2001/04/21 11:00:00	13	0.508	33.99%	0.15
241	1979/01/17 01:00:00	1979/01/18 15:00:00	39	0.503	34.14%	0.15
242	1987/02/23 23:00:00	1987/02/25 13:00:00	39	0.491	34.28%	0.15
243	1990/02/04 10:00:00	1990/02/04 11:00:00	2	0.473	34.42%	0.15
244	1987/12/04 21:00:00	1987/12/05 03:00:00	7	0.467	34.56%	0.15
245	1992/12/27 19:00:00	1992/12/28 05:00:00	11	0.465	34.70%	0.15
246	1988/04/14 14:00:00	1988/04/15 02:00:00	13	0.46	34.84%	0.15
247	1992/01/07 16:00:00	1992/01/07 20:00:00	5	0.459	34.99%	0.15
248	1979/02/23 04:00:00	1979/02/23 06:00:00	3	0.456	35.13%	0.15
249	2003/11/12 04:00:00	2003/11/13 00:00:00	21	0.456	35.27%	0.15
250	1973/02/28 01:00:00	1973/02/28 07:00:00	7	0.452	35.41%	0.14
251	1983/12/03 15:00:00	1983/12/03 17:00:00	3	0.452	35.55%	0.14
252	1998/03/31 05:00:00	1998/03/31 23:00:00	19	0.451	35.69%	0.14
253	1973/03/21 22:00:00	1973/03/22 01:00:00	4	0.443	35.84%	0.14
254	1987/10/31 02:00:00	1987/11/02 03:00:00	50	0.442	35.98%	0.14
255	2002/12/20 04:00:00	2002/12/20 09:00:00	6	0.433	36.12%	0.14
256	1978/11/10 12:00:00	1978/11/12 05:00:00	42	0.419	36.26%	0.14
257	1986/02/07 20:00:00	1986/02/08 22:00:00	27	0.416	36.40%	0.14
258	1984/12/10 21:00:00	1984/12/11 07:00:00	11	0.415	36.54%	0.14
259	1992/02/06 09:00:00	1992/02/07 12:00:00	28	0.401	36.69%	0.14
260	1983/02/02 12:00:00	1983/02/02 23:00:00	12	0.39	36.83%	0.14
261	1998/02/19 12:00:00	1998/02/20 00:00:00	13	0.386	36.97%	0.14
262	1996/03/04 15:00:00	1996/03/05 04:00:00	14	0.384	37.11%	0.14
263	1992/10/30 15:00:00	1992/10/31 09:00:00	19	0.352	37.25%	0.14
264	1986/03/13 13:00:00	1986/03/13 23:00:00	11	0.346	37.39%	0.14
265	1994/03/19 02:00:00	1994/03/19 20:00:00	19	0.339	37.54%	0.14
266	1997/09/25 02:00:00	1997/09/26 03:00:00	26	0.319	37.68%	0.14
267	1991/03/15 03:00:00	1991/03/15 19:00:00	17	0.311	37.82%	0.14
268	2000/02/10 18:00:00	2000/02/10 20:00:00	3	0.31	37.96%	0.13
269	1978/03/09 16:00:00	1978/03/09 19:00:00	4	0.304	38.10%	0.13
270	1976/05/07 07:00:00	1976/05/07 09:00:00	3	0.304	38.24%	0.13
271	1988/02/02 03:00:00	1988/02/02 15:00:00	13	0.292	38.39%	0.13
272	1979/10/20 00:00:00	1979/10/20 14:00:00	15	0.29	38.53%	0.13
273	1994/01/24 23:00:00	1994/01/26 08:00:00	34	0.289	38.67%	0.13
274	1997/11/26 12:00:00	1997/11/27 06:00:00	19	0.288	38.81%	0.13

Rank	Start Date	End Date	Duration	Peak	Frequency	Return Period
275	1996/01/21 18:00:00	1996/01/22 07:00:00	14	0.287	38.95%	0.13
276	1981/11/28 04:00:00	1981/11/28 22:00:00	19	0.284	39.09%	0.13
277	1993/06/05 12:00:00	1993/06/05 17:00:00	6	0.282	39.24%	0.13
278	1979/02/14 02:00:00	1979/02/14 05:00:00	4	0.276	39.38%	0.13
279	1978/04/15 15:00:00	1978/04/15 22:00:00	8	0.27	39.52%	0.13
280	2005/03/04 17:00:00	2005/03/04 17:00:00	1	0.269	39.66%	0.13
281	1998/09/03 12:00:00	1998/09/03 18:00:00	7	0.267	39.80%	0.13
282	1994/03/06 05:00:00	1994/03/07 09:00:00	29	0.259	39.94%	0.13
283	1989/03/02 11:00:00	1989/03/03 13:00:00	27	0.258	40.08%	0.13
284	1997/01/23 02:00:00	1997/01/23 08:00:00	7	0.255	40.23%	0.13
285	1987/10/22 14:00:00	1987/10/23 00:00:00	11	0.254	40.37%	0.13
286	1986/04/06 04:00:00	1986/04/06 10:00:00	7	0.249	40.51%	0.13
287	2001/01/26 11:00:00	2001/01/27 10:00:00	24	0.249	40.65%	0.13
288	1999/04/02 04:00:00	1999/04/02 08:00:00	5	0.237	40.79%	0.13
289	1982/09/25 23:00:00	1982/09/26 13:00:00	15	0.237	40.93%	0.13
290	1990/06/09 08:00:00	1990/06/09 19:00:00	12	0.234	41.08%	0.12
291	1989/03/25 09:00:00	1989/03/25 17:00:00	9	0.23	41.22%	0.12
292	1975/02/03 07:00:00	1975/02/05 09:00:00	51	0.227	41.36%	0.12
293	1988/12/18 12:00:00	1988/12/19 08:00:00	21	0.219	41.50%	0.12
294	1972/12/07 03:00:00	1972/12/08 20:00:00	42	0.218	41.64%	0.12
295	2001/02/23 09:00:00	2001/02/23 18:00:00	10	0.216	41.78%	0.12
296	1987/03/24 17:00:00	1987/03/24 17:00:00	1	0.209	41.93%	0.12
297	1977/12/17 10:00:00	1977/12/18 07:00:00	22	0.209	42.07%	0.12
298	1998/03/06 03:00:00	1998/03/06 09:00:00	7	0.208	42.21%	0.12
299	2005/10/18 01:00:00	2005/10/18 09:00:00	9	0.207	42.35%	0.12
300	1975/03/22 05:00:00	1975/03/22 10:00:00	6	0.207	42.49%	0.12
301	2004/11/27 18:00:00	2004/11/27 21:00:00	4	0.205	42.63%	0.12
302	1981/03/05 03:00:00	1981/03/05 16:00:00	14	0.199	42.78%	0.12
303	1997/02/10 21:00:00	1997/02/11 02:00:00	6	0.195	42.92%	0.12
304	2004/02/02 23:00:00	2004/02/03 03:00:00	5	0.192	43.06%	0.12
305	1978/12/01 19:00:00	1978/12/01 19:00:00	1	0.192	43.20%	0.12
306	1984/11/08 07:00:00	1984/11/08 08:00:00	2	0.192	43.34%	0.12
307	1987/03/15 02:00:00	1987/03/15 15:00:00	14	0.192	43.48%	0.12
308	1987/03/21 16:00:00	1987/03/22 18:00:00	27	0.192	43.63%	0.12
309	1987/12/29 16:00:00	1987/12/29 16:00:00	1	0.192	43.77%	0.12
310	1990/01/02 04:00:00	1990/01/02 10:00:00	7	0.192	43.91%	0.12
311	1990/01/30 23:00:00	1990/01/31 01:00:00	3	0.192	44.05%	0.12
312	1991/01/09 13:00:00	1991/01/09 15:00:00	3	0.192	44.19%	0.12
313	1992/03/31 15:00:00	1992/04/01 14:00:00	24	0.192	44.33%	0.12
314	1993/12/14 18:00:00	1993/12/14 18:00:00	1	0.192	44.48%	0.12
315	1994/05/06 23:00:00	1994/05/07 08:00:00	10	0.192	44.62%	0.11
316	1995/01/15 18:00:00	1995/01/15 20:00:00	3	0.192	44.76%	0.11
317	1997/11/10 15:00:00	1997/11/10 17:00:00	3	0.192	44.90%	0.11
318	1999/04/11 23:00:00	1999/04/12 02:00:00	4	0.192	45.04%	0.11
319	1999/07/08 05:00:00	1999/07/08 06:00:00	2	0.192	45.18%	0.11
320	1999/07/12 20:00:00	1999/07/12 20:00:00	1	0.192	45.33%	0.11
321	2001/01/08 17:00:00	2001/01/09 11:00:00	19	0.192	45.47%	0.11

Rank	Start Date	End Date	Duration	Peak	Frequency	Return Period
322	2001/03/06 04:00:00	2001/03/07 02:00:00	23	0.192	45.61%	0.11
323	2004/02/18 17:00:00	2004/02/18 18:00:00	2	0.192	45.75%	0.11
324	2004/04/01 21:00:00	2004/04/01 21:00:00	1	0.192	45.89%	0.11
325	1974/01/01 04:00:00	1974/01/01 08:00:00	5	0.191	46.03%	0.11
326	1992/12/04 08:00:00	1992/12/04 12:00:00	5	0.191	46.18%	0.11
327	1993/12/11 16:00:00	1993/12/11 21:00:00	6	0.191	46.32%	0.11
328	2001/12/14 14:00:00	2001/12/14 15:00:00	2	0.191	46.46%	0.11
329	1974/12/28 06:00:00	1974/12/29 07:00:00	26	0.191	46.60%	0.11
330	1994/11/10 10:00:00	1994/11/10 13:00:00	4	0.19	46.74%	0.11
331	1998/11/09 06:00:00	1998/11/09 10:00:00	5	0.19	46.88%	0.11
332	1981/11/26 18:00:00	1981/11/27 01:00:00	8	0.19	47.03%	0.11
333	1981/02/25 20:00:00	1981/02/26 01:00:00	6	0.19	47.17%	0.11
334	1996/12/22 12:00:00	1996/12/22 16:00:00	5	0.19	47.31%	0.11
335	1982/02/08 08:00:00	1982/02/08 13:00:00	6	0.189	47.45%	0.11
336	1976/11/12 01:00:00	1976/11/12 16:00:00	16	0.189	47.59%	0.11
337	2002/03/17 22:00:00	2002/03/18 00:00:00	3	0.189	47.73%	0.11
338	1991/10/26 19:00:00	1991/10/27 13:00:00	19	0.188	47.88%	0.11
339	2000/10/29 20:00:00	2000/10/30 01:00:00	6	0.188	48.02%	0.11
340	1996/10/30 12:00:00	1996/10/30 16:00:00	5	0.188	48.16%	0.11
341	1984/10/17 04:00:00	1984/10/17 12:00:00	9	0.188	48.30%	0.11
342	1996/04/18 00:00:00	1996/04/18 03:00:00	4	0.187	48.44%	0.11
343	1990/04/04 10:00:00	1990/04/04 15:00:00	6	0.187	48.58%	0.11
344	1990/05/28 04:00:00	1990/05/28 11:00:00	8	0.187	48.73%	0.11
345	2003/05/03 07:00:00	2003/05/03 12:00:00	6	0.186	48.87%	0.1
346	1982/08/22 20:00:00	1982/08/22 22:00:00	3	0.186	49.01%	0.1
347	1979/03/01 09:00:00	1979/03/01 13:00:00	5	0.175	49.15%	0.1
348	1972/04/13 05:00:00	1972/04/13 05:00:00	1	0.173	49.29%	0.1
349	1972/04/19 13:00:00	1972/04/19 16:00:00	4	0.173	49.43%	0.1
350	1975/03/14 00:00:00	1975/03/14 01:00:00	2	0.173	49.58%	0.1
351	2004/03/02 00:00:00	2004/03/02 04:00:00	5	0.164	49.72%	0.1
352	1973/11/17 22:00:00	1973/11/18 13:00:00	16	0.153	49.86%	0.1
353	1980/03/10 18:00:00	1980/03/10 20:00:00	3	0.144	50.00%	0.1
354	1993/03/28 02:00:00	1993/03/28 04:00:00	3	0.138	50.14%	0.1
355	1978/01/30 14:00:00	1978/01/30 20:00:00	7	0.138	50.28%	0.1
356	1978/11/23 10:00:00	1978/11/25 03:00:00	42	0.135	50.42%	0.1
357	1972/11/11 03:00:00	1972/11/11 08:00:00	6	0.127	50.57%	0.1
358	1982/04/11 18:00:00	1982/04/11 20:00:00	3	0.125	50.71%	0.1
359	1985/01/07 09:00:00	1985/01/08 03:00:00	19	0.124	50.85%	0.1
360	2000/02/16 15:00:00	2000/02/16 17:00:00	3	0.121	50.99%	0.1
361	1997/11/13 10:00:00	1997/11/13 18:00:00	9	0.115	51.13%	0.1
362	2000/02/27 18:00:00	2000/02/27 19:00:00	2	0.115	51.27%	0.1
363	1977/02/23 15:00:00	1977/02/24 17:00:00	27	0.112	51.42%	0.1
364	1976/09/03 18:00:00	1976/09/03 19:00:00	2	0.108	51.56%	0.1
365	1975/02/09 05:00:00	1975/02/09 22:00:00	18	0.106	51.70%	0.1
366	1988/02/29 21:00:00	1988/03/02 02:00:00	30	0.101	51.84%	0.1
367	1973/03/28 09:00:00	1973/03/28 09:00:00	1	0.096	51.98%	0.1
368	1973/04/30 11:00:00	1973/04/30 11:00:00	1	0.096	52.12%	0.1

Rank	Start Date	End Date	Duration	Peak	Frequency	Return Period
369	1973/11/27 13:00:00	1973/11/27 13:00:00	1	0.096	52.27%	0.1
370	1973/12/01 14:00:00	1973/12/02 13:00:00	24	0.096	52.41%	0.1
371	1974/01/20 18:00:00	1974/01/20 18:00:00	1	0.096	52.55%	0.1
372	1974/03/27 11:00:00	1974/03/27 11:00:00	1	0.096	52.69%	0.1
373	1974/04/01 23:00:00	1974/04/02 05:00:00	7	0.096	52.83%	0.1
374	1974/10/28 10:00:00	1974/10/29 09:00:00	24	0.096	52.97%	0.1
375	1974/10/31 12:00:00	1974/10/31 12:00:00	1	0.096	53.12%	0.1
376	1975/01/07 08:00:00	1975/01/07 08:00:00	1	0.096	53.26%	0.1
377	1975/01/31 14:00:00	1975/01/31 14:00:00	1	0.096	53.40%	0.1
378	1975/06/18 14:00:00	1975/06/18 14:00:00	1	0.096	53.54%	0.1
379	1975/07/15 10:00:00	1975/07/15 10:00:00	1	0.096	53.68%	0.1
380	1976/10/02 01:00:00	1976/10/02 01:00:00	1	0.096	53.82%	0.1
381	1976/10/23 15:00:00	1976/10/23 15:00:00	1	0.096	53.97%	0.09
382	1977/01/26 01:00:00	1977/01/26 01:00:00	1	0.096	54.11%	0.09
383	1977/03/16 13:00:00	1977/03/16 15:00:00	3	0.096	54.25%	0.09
384	1977/04/01 14:00:00	1977/04/01 14:00:00	1	0.096	54.39%	0.09
385	1977/04/02 15:00:00	1977/04/02 15:00:00	1	0.096	54.53%	0.09
386	1977/05/24 05:00:00	1977/05/24 05:00:00	1	0.096	54.67%	0.09
387	1977/08/20 15:00:00	1977/08/20 15:00:00	1	0.096	54.82%	0.09
388	1977/12/22 11:00:00	1977/12/23 08:00:00	22	0.096	54.96%	0.09
389	1978/02/05 10:00:00	1978/02/06 13:00:00	28	0.096	55.10%	0.09
390	1978/03/22 07:00:00	1978/03/22 14:00:00	8	0.096	55.24%	0.09
391	1978/04/02 08:00:00	1978/04/02 08:00:00	1	0.096	55.38%	0.09
392	1978/04/04 17:00:00	1978/04/04 17:00:00	1	0.096	55.52%	0.09
393	1978/04/25 07:00:00	1978/04/25 07:00:00	1	0.096	55.67%	0.09
394	1979/01/12 12:00:00	1979/01/12 12:00:00	1	0.096	55.81%	0.09
395	1979/01/28 12:00:00	1979/01/28 19:00:00	8	0.096	55.95%	0.09
396	1979/02/04 14:00:00	1979/02/05 12:00:00	23	0.096	56.09%	0.09
397	1979/03/13 07:00:00	1979/03/13 07:00:00	1	0.096	56.23%	0.09
398	1979/03/21 05:00:00	1979/03/21 05:00:00	1	0.096	56.37%	0.09
399	1979/07/20 00:00:00	1979/07/20 04:00:00	5	0.096	56.52%	0.09
400	1979/12/15 11:00:00	1979/12/15 11:00:00	1	0.096	56.66%	0.09
401	1979/12/21 13:00:00	1979/12/21 13:00:00	1	0.096	56.80%	0.09
402	1979/12/25 07:00:00	1979/12/25 09:00:00	3	0.096	56.94%	0.09
403	1980/01/11 12:00:00	1980/01/11 12:00:00	1	0.096	57.08%	0.09
404	1980/01/12 22:00:00	1980/01/13 01:00:00	4	0.096	57.22%	0.09
405	1980/01/16 18:00:00	1980/01/18 03:00:00	34	0.096	57.37%	0.09
406	1980/02/01 16:00:00	1980/02/01 16:00:00	1	0.096	57.51%	0.09
407	1980/03/26 02:00:00	1980/03/26 06:00:00	5	0.096	57.65%	0.09
408	1980/04/22 14:00:00	1980/04/24 14:00:00	49	0.096	57.79%	0.09
409	1980/04/28 19:00:00	1980/04/28 19:00:00	1	0.096	57.93%	0.09
410	1980/05/10 10:00:00	1980/05/11 01:00:00	16	0.096	58.07%	0.09
411	1981/01/11 07:00:00	1981/01/11 07:00:00	1	0.096	58.22%	0.09
412	1981/01/26 13:00:00	1981/01/26 13:00:00	1	0.096	58.36%	0.09
413	1981/03/08 11:00:00	1981/03/08 11:00:00	1	0.096	58.50%	0.09
414	1981/04/02 14:00:00	1981/04/02 14:00:00	1	0.096	58.64%	0.09
415	1981/04/18 11:00:00	1981/04/19 07:00:00	21	0.096	58.78%	0.09

Rank	Start Date	End Date	Duration	Peak	Frequency	Return Period
416	1981/10/11 08:00:00	1981/10/11 08:00:00	1	0.096	58.92%	0.09
417	1981/10/28 22:00:00	1981/10/28 22:00:00	1	0.096	59.07%	0.09
418	1981/12/24 14:00:00	1981/12/24 14:00:00	1	0.096	59.21%	0.09
419	1981/12/30 09:00:00	1981/12/30 13:00:00	5	0.096	59.35%	0.09
420	1982/01/03 14:00:00	1982/01/03 14:00:00	1	0.096	59.49%	0.09
421	1982/01/10 23:00:00	1982/01/11 08:00:00	10	0.096	59.63%	0.09
422	1982/01/28 18:00:00	1982/01/28 18:00:00	1	0.096	59.77%	0.09
423	1982/02/20 15:00:00	1982/02/20 15:00:00	1	0.096	59.92%	0.09
424	1982/03/02 15:00:00	1982/03/02 15:00:00	1	0.096	60.06%	0.09
425	1982/03/12 11:00:00	1982/03/12 11:00:00	1	0.096	60.20%	0.09
426	1982/03/23 14:00:00	1982/03/23 14:00:00	1	0.096	60.34%	0.09
427	1982/03/26 01:00:00	1982/03/26 06:00:00	6	0.096	60.48%	0.08
428	1982/05/11 16:00:00	1982/05/12 12:00:00	21	0.096	60.62%	0.08
429	1982/08/20 11:00:00	1982/08/20 11:00:00	1	0.096	60.76%	0.08
430	1982/08/26 13:00:00	1982/08/27 11:00:00	23	0.096	60.91%	0.08
431	1982/10/24 15:00:00	1982/10/24 15:00:00	1	0.096	61.05%	0.08
432	1982/11/18 19:00:00	1982/11/19 03:00:00	9	0.096	61.19%	0.08
433	1982/12/07 20:00:00	1982/12/07 20:00:00	1	0.096	61.33%	0.08
434	1982/12/21 12:00:00	1982/12/21 12:00:00	1	0.096	61.47%	0.08
435	1983/01/19 04:00:00	1983/01/19 18:00:00	15	0.096	61.61%	0.08
436	1983/02/01 12:00:00	1983/02/01 12:00:00	1	0.096	61.76%	0.08
437	1983/02/05 18:00:00	1983/02/05 18:00:00	1	0.096	61.90%	0.08
438	1983/02/24 09:00:00	1983/02/25 01:00:00	17	0.096	62.04%	0.08
439	1983/03/05 23:00:00	1983/03/06 04:00:00	6	0.096	62.18%	0.08
440	1983/03/14 00:00:00	1983/03/14 02:00:00	3	0.096	62.32%	0.08
441	1983/03/22 19:00:00	1983/03/22 22:00:00	4	0.096	62.46%	0.08
442	1983/04/02 14:00:00	1983/04/02 14:00:00	1	0.096	62.61%	0.08
443	1983/08/06 12:00:00	1983/08/06 12:00:00	1	0.096	62.75%	0.08
444	1983/08/09 03:00:00	1983/08/09 16:00:00	14	0.096	62.89%	0.08
445	1983/09/20 10:00:00	1983/09/20 13:00:00	4	0.096	63.03%	0.08
446	1983/10/06 23:00:00	1983/10/07 09:00:00	11	0.096	63.17%	0.08
447	1983/11/18 02:00:00	1983/11/18 02:00:00	1	0.096	63.31%	0.08
448	1983/12/09 11:00:00	1983/12/09 20:00:00	10	0.096	63.46%	0.08
449	1983/12/27 07:00:00	1983/12/27 07:00:00	1	0.096	63.60%	0.08
450	1983/12/31 15:00:00	1983/12/31 15:00:00	1	0.096	63.74%	0.08
451	1984/01/03 14:00:00	1984/01/03 15:00:00	2	0.096	63.88%	0.08
452	1984/01/14 06:00:00	1984/01/14 06:00:00	1	0.096	64.02%	0.08
453	1984/01/16 17:00:00	1984/01/16 17:00:00	1	0.096	64.16%	0.08
454	1984/02/10 10:00:00	1984/02/10 10:00:00	1	0.096	64.31%	0.08
455	1984/03/26 23:00:00	1984/03/26 23:00:00	1	0.096	64.45%	0.08
456	1984/04/06 07:00:00	1984/04/06 07:00:00	1	0.096	64.59%	0.08
457	1984/04/19 07:00:00	1984/04/19 07:00:00	1	0.096	64.73%	0.08
458	1984/07/14 18:00:00	1984/07/14 18:00:00	1	0.096	64.87%	0.08
459	1984/11/21 10:00:00	1984/11/21 10:00:00	1	0.096	65.01%	0.08
460	1984/12/03 09:00:00	1984/12/03 14:00:00	6	0.096	65.16%	0.08
461	1984/12/08 00:00:00	1984/12/08 02:00:00	3	0.096	65.30%	0.08
462	1984/12/13 12:00:00	1984/12/13 12:00:00	1	0.096	65.44%	0.08

Rank	Start Date	End Date	Duration	Peak	Frequency	Return Period
463	1985/01/30 08:00:00	1985/01/30 12:00:00	5	0.096	65.58%	0.08
464	1985/02/04 07:00:00	1985/02/04 07:00:00	1	0.096	65.72%	0.08
465	1985/02/20 18:00:00	1985/02/20 18:00:00	1	0.096	65.86%	0.08
466	1985/03/02 17:00:00	1985/03/02 17:00:00	1	0.096	66.01%	0.08
467	1985/03/08 13:00:00	1985/03/08 13:00:00	1	0.096	66.15%	0.08
468	1985/03/27 08:00:00	1985/03/28 11:00:00	28	0.096	66.29%	0.08
469	1985/09/05 07:00:00	1985/09/05 07:00:00	1	0.096	66.43%	0.08
470	1985/09/18 10:00:00	1985/09/19 11:00:00	26	0.096	66.57%	0.08
471	1985/10/09 20:00:00	1985/10/09 20:00:00	1	0.096	66.71%	0.08
472	1985/10/21 23:00:00	1985/10/22 00:00:00	2	0.096	66.86%	0.08
473	1985/12/02 15:00:00	1985/12/03 01:00:00	11	0.096	67.00%	0.08
474	1985/12/10 15:00:00	1985/12/10 21:00:00	7	0.096	67.14%	0.08
475	1985/12/18 23:00:00	1985/12/18 23:00:00	1	0.096	67.28%	0.08
476	1986/01/31 18:00:00	1986/01/31 19:00:00	2	0.096	67.42%	0.08
477	1986/02/19 14:00:00	1986/02/19 14:00:00	1	0.096	67.56%	0.08
478	1986/02/28 19:00:00	1986/02/28 19:00:00	1	0.096	67.71%	0.08
479	1986/05/07 10:00:00	1986/05/07 10:00:00	1	0.096	67.85%	0.08
480	1986/08/18 04:00:00	1986/08/18 04:00:00	1	0.096	67.99%	0.08
481	1986/10/02 18:00:00	1986/10/02 19:00:00	2	0.096	68.13%	0.08
482	1986/12/05 21:00:00	1986/12/06 22:00:00	26	0.096	68.27%	0.08
483	1986/12/10 14:00:00	1986/12/10 14:00:00	1	0.096	68.41%	0.08
484	1986/12/20 06:00:00	1986/12/20 06:00:00	1	0.096	68.56%	0.07
485	1987/02/14 12:00:00	1987/02/14 12:00:00	1	0.096	68.70%	0.07
486	1987/04/03 21:00:00	1987/04/03 21:00:00	1	0.096	68.84%	0.07
487	1987/04/05 15:00:00	1987/04/05 15:00:00	1	0.096	68.98%	0.07
488	1987/05/07 15:00:00	1987/05/07 15:00:00	1	0.096	69.12%	0.07
489	1987/09/13 08:00:00	1987/09/13 08:00:00	1	0.096	69.26%	0.07
490	1987/10/29 01:00:00	1987/10/29 01:00:00	1	0.096	69.41%	0.07
491	1987/12/07 05:00:00	1987/12/07 05:00:00	1	0.096	69.55%	0.07
492	1987/12/26 13:00:00	1987/12/26 13:00:00	1	0.096	69.69%	0.07
493	1988/04/23 12:00:00	1988/04/23 12:00:00	1	0.096	69.83%	0.07
494	1988/05/29 05:00:00	1988/05/29 05:00:00	1	0.096	69.97%	0.07
495	1988/11/14 05:00:00	1988/11/14 09:00:00	5	0.096	70.11%	0.07
496	1988/11/25 05:00:00	1988/11/25 12:00:00	8	0.096	70.25%	0.07
497	1988/12/15 06:00:00	1988/12/16 18:00:00	37	0.096	70.40%	0.07
498	1988/12/22 23:00:00	1988/12/22 23:00:00	1	0.096	70.54%	0.07
499	1988/12/26 10:00:00	1988/12/26 10:00:00	1	0.096	70.68%	0.07
500	1988/12/27 23:00:00	1988/12/27 23:00:00	1	0.096	70.82%	0.07
501	1989/02/02 08:00:00	1989/02/03 00:00:00	17	0.096	70.96%	0.07
502	1989/02/08 02:00:00	1989/02/08 02:00:00	1	0.096	71.10%	0.07
503	1989/02/09 13:00:00	1989/02/10 02:00:00	14	0.096	71.25%	0.07
504	1989/02/13 09:00:00	1989/02/13 19:00:00	11	0.096	71.39%	0.07
505	1989/04/26 08:00:00	1989/04/26 08:00:00	1	0.096	71.53%	0.07
506	1989/05/11 00:00:00	1989/05/11 00:00:00	1	0.096	71.67%	0.07
507	1989/09/17 09:00:00	1989/09/17 09:00:00	1	0.096	71.81%	0.07
508	1989/09/19 09:00:00	1989/09/19 09:00:00	1	0.096	71.95%	0.07
509	1989/10/22 02:00:00	1989/10/22 07:00:00	6	0.096	72.10%	0.07

Rank	Start Date	End Date	Duration	Peak	Frequency	Return Period
510	1989/11/26 10:00:00	1989/11/26 10:00:00	1	0.096	72.24%	0.07
511	1990/01/15 14:00:00	1990/01/15 14:00:00	1	0.096	72.38%	0.07
512	1990/02/01 09:00:00	1990/02/01 09:00:00	1	0.096	72.52%	0.07
513	1990/02/08 08:00:00	1990/02/08 08:00:00	1	0.096	72.66%	0.07
514	1990/03/11 02:00:00	1990/03/11 07:00:00	6	0.096	72.80%	0.07
515	1990/04/23 20:00:00	1990/04/23 20:00:00	1	0.096	72.95%	0.07
516	1990/05/31 15:00:00	1990/05/31 15:00:00	1	0.096	73.09%	0.07
517	1990/12/19 13:00:00	1990/12/20 05:00:00	17	0.096	73.23%	0.07
518	1991/01/03 12:00:00	1991/01/04 07:00:00	20	0.096	73.37%	0.07
519	1991/03/11 02:00:00	1991/03/11 02:00:00	1	0.096	73.51%	0.07
520	1991/05/10 18:00:00	1991/05/10 18:00:00	1	0.096	73.65%	0.07
521	1991/06/29 17:00:00	1991/06/29 17:00:00	1	0.096	73.80%	0.07
522	1991/12/10 08:00:00	1991/12/11 03:00:00	20	0.096	73.94%	0.07
523	1991/12/19 02:00:00	1991/12/19 04:00:00	3	0.096	74.08%	0.07
524	1991/12/28 00:00:00	1991/12/28 03:00:00	4	0.096	74.22%	0.07
525	1992/01/03 05:00:00	1992/01/03 14:00:00	10	0.096	74.36%	0.07
526	1992/03/07 18:00:00	1992/03/08 10:00:00	17	0.096	74.50%	0.07
527	1992/07/08 12:00:00	1992/07/08 12:00:00	1	0.096	74.65%	0.07
528	1992/08/13 10:00:00	1992/08/13 10:00:00	1	0.096	74.79%	0.07
529	1992/10/23 06:00:00	1992/10/23 20:00:00	15	0.096	74.93%	0.07
530	1992/12/11 17:00:00	1992/12/11 17:00:00	1	0.096	75.07%	0.07
531	1992/12/18 00:00:00	1992/12/18 01:00:00	2	0.096	75.21%	0.07
532	1993/01/02 08:00:00	1993/01/02 10:00:00	3	0.096	75.35%	0.07
533	1993/02/26 20:00:00	1993/02/27 01:00:00	6	0.096	75.50%	0.07
534	1993/03/26 00:00:00	1993/03/26 05:00:00	6	0.096	75.64%	0.07
535	1993/10/16 08:00:00	1993/10/16 08:00:00	1	0.096	75.78%	0.07
536	1993/11/11 05:00:00	1993/11/12 09:00:00	29	0.096	75.92%	0.07
537	1993/11/23 03:00:00	1993/11/23 03:00:00	1	0.096	76.06%	0.07
538	1993/11/30 05:00:00	1993/11/30 05:00:00	1	0.096	76.20%	0.07
539	1993/12/19 04:00:00	1993/12/19 06:00:00	3	0.096	76.35%	0.07
540	1994/04/09 12:00:00	1994/04/09 12:00:00	1	0.096	76.49%	0.07
541	1994/04/24 03:00:00	1994/04/24 04:00:00	2	0.096	76.63%	0.07
542	1994/04/27 22:00:00	1994/04/28 10:00:00	13	0.096	76.77%	0.07
543	1994/12/24 08:00:00	1994/12/25 04:00:00	21	0.096	76.91%	0.07
544	1995/01/21 06:00:00	1995/01/21 13:00:00	8	0.096	77.05%	0.07
545	1995/03/21 07:00:00	1995/03/21 11:00:00	5	0.096	77.20%	0.07
546	1995/04/23 17:00:00	1995/04/23 17:00:00	1	0.096	77.34%	0.07
547	1995/05/05 00:00:00	1995/05/05 00:00:00	1	0.096	77.48%	0.07
548	1995/05/06 06:00:00	1995/05/06 06:00:00	1	0.096	77.62%	0.07
549	1995/05/13 07:00:00	1995/05/14 02:00:00	20	0.096	77.76%	0.07
550	1995/06/15 20:00:00	1995/06/16 20:00:00	25	0.096	77.90%	0.07
551	1995/07/16 07:00:00	1995/07/16 09:00:00	3	0.096	78.05%	0.07
552	1995/12/13 05:00:00	1995/12/13 21:00:00	17	0.096	78.19%	0.07
553	1995/12/23 10:00:00	1995/12/23 16:00:00	7	0.096	78.33%	0.07
554	1996/01/16 20:00:00	1996/01/16 20:00:00	1	0.096	78.47%	0.07
555	1996/01/23 12:00:00	1996/01/23 12:00:00	1	0.096	78.61%	0.07
556	1996/02/03 13:00:00	1996/02/03 13:00:00	1	0.096	78.75%	0.07

Rank	Start Date	End Date	Duration	Peak	Frequency	Return Period
557	1996/04/19 12:00:00	1996/04/19 12:00:00	1	0.096	78.90%	0.07
558	1996/05/24 11:00:00	1996/05/24 11:00:00	1	0.096	79.04%	0.07
559	1996/11/29 00:00:00	1996/11/29 00:00:00	1	0.096	79.18%	0.06
560	1996/12/06 02:00:00	1996/12/06 02:00:00	1	0.096	79.32%	0.06
561	1996/12/27 18:00:00	1996/12/28 08:00:00	15	0.096	79.46%	0.06
562	1997/01/03 00:00:00	1997/01/03 09:00:00	10	0.096	79.60%	0.06
563	1997/01/05 07:00:00	1997/01/05 14:00:00	8	0.096	79.75%	0.06
564	1997/01/27 11:00:00	1997/01/27 11:00:00	1	0.096	79.89%	0.06
565	1997/02/08 13:00:00	1997/02/08 13:00:00	1	0.096	80.03%	0.06
566	1997/02/27 07:00:00	1997/02/27 12:00:00	6	0.096	80.17%	0.06
567	1997/06/13 10:00:00	1997/06/13 10:00:00	1	0.096	80.31%	0.06
568	1997/09/15 12:00:00	1997/09/15 12:00:00	1	0.096	80.45%	0.06
569	1997/11/30 13:00:00	1997/11/30 23:00:00	11	0.096	80.59%	0.06
570	1997/12/18 16:00:00	1997/12/18 18:00:00	3	0.096	80.74%	0.06
571	1998/01/03 06:00:00	1998/01/03 08:00:00	3	0.096	80.88%	0.06
572	1998/01/04 17:00:00	1998/01/04 18:00:00	2	0.096	81.02%	0.06
573	1998/01/16 01:00:00	1998/01/16 01:00:00	1	0.096	81.16%	0.06
574	1998/01/19 03:00:00	1998/01/19 04:00:00	2	0.096	81.30%	0.06
575	1998/01/29 10:00:00	1998/01/29 11:00:00	2	0.096	81.44%	0.06
576	1998/01/31 20:00:00	1998/01/31 20:00:00	1	0.096	81.59%	0.06
577	1998/05/02 12:00:00	1998/05/02 12:00:00	1	0.096	81.73%	0.06
578	1998/09/16 06:00:00	1998/09/16 06:00:00	1	0.096	81.87%	0.06
579	1998/09/18 00:00:00	1998/09/18 00:00:00	1	0.096	82.01%	0.06
580	1998/09/22 04:00:00	1998/09/22 04:00:00	1	0.096	82.15%	0.06
581	1998/09/28 07:00:00	1998/09/28 07:00:00	1	0.096	82.29%	0.06
582	1998/10/15 09:00:00	1998/10/15 09:00:00	1	0.096	82.44%	0.06
583	1998/11/12 18:00:00	1998/11/12 18:00:00	1	0.096	82.58%	0.06
584	1998/12/02 23:00:00	1998/12/02 23:00:00	1	0.096	82.72%	0.06
585	1998/12/05 21:00:00	1998/12/06 02:00:00	6	0.096	82.86%	0.06
586	1998/12/19 17:00:00	1998/12/19 20:00:00	4	0.096	83.00%	0.06
587	1999/01/20 11:00:00	1999/01/21 09:00:00	23	0.096	83.14%	0.06
588	1999/01/31 12:00:00	1999/01/31 12:00:00	1	0.096	83.29%	0.06
589	1999/02/09 20:00:00	1999/02/09 23:00:00	4	0.096	83.43%	0.06
590	1999/03/04 21:00:00	1999/03/04 21:00:00	1	0.096	83.57%	0.06
591	1999/03/15 22:00:00	1999/03/16 01:00:00	4	0.096	83.71%	0.06
592	1999/04/04 11:00:00	1999/04/04 11:00:00	1	0.096	83.85%	0.06
593	1999/06/01 23:00:00	1999/06/02 06:00:00	8	0.096	83.99%	0.06
594	1999/12/10 06:00:00	1999/12/10 06:00:00	1	0.096	84.14%	0.06
595	1999/12/12 13:00:00	1999/12/12 13:00:00	1	0.096	84.28%	0.06
596	1999/12/14 15:00:00	1999/12/14 15:00:00	1	0.096	84.42%	0.06
597	2000/01/01 05:00:00	2000/01/02 01:00:00	21	0.096	84.56%	0.06
598	2000/01/16 12:00:00	2000/01/16 12:00:00	1	0.096	84.70%	0.06
599	2000/01/25 11:00:00	2000/01/25 13:00:00	3	0.096	84.84%	0.06
600	2000/01/31 04:00:00	2000/01/31 04:00:00	1	0.096	84.99%	0.06
601	2000/08/02 15:00:00	2000/08/03 12:00:00	22	0.096	85.13%	0.06
602	2000/10/26 12:00:00	2000/10/26 12:00:00	1	0.096	85.27%	0.06
603	2000/11/10 08:00:00	2000/11/11 04:00:00	21	0.096	85.41%	0.06

Rank	Start Date	End Date	Duration	Peak	Frequency	Return Period
604	2000/11/20 14:00:00	2000/11/20 14:00:00	1	0.096	85.55%	0.06
605	2001/01/24 13:00:00	2001/01/24 13:00:00	1	0.096	85.69%	0.06
606	2001/02/07 10:00:00	2001/02/07 10:00:00	1	0.096	85.84%	0.06
607	2001/02/19 21:00:00	2001/02/20 01:00:00	5	0.096	85.98%	0.06
608	2001/04/09 11:00:00	2001/04/09 20:00:00	10	0.096	86.12%	0.06
609	2001/10/12 20:00:00	2001/10/12 21:00:00	2	0.096	86.26%	0.06
610	2001/11/29 13:00:00	2001/11/29 13:00:00	1	0.096	86.40%	0.06
611	2001/12/03 14:00:00	2001/12/03 14:00:00	1	0.096	86.54%	0.06
612	2001/12/21 00:00:00	2001/12/21 09:00:00	10	0.096	86.69%	0.06
613	2001/12/29 22:00:00	2001/12/29 22:00:00	1	0.096	86.83%	0.06
614	2002/01/03 04:00:00	2002/01/03 04:00:00	1	0.096	86.97%	0.06
615	2002/01/28 03:00:00	2002/01/28 09:00:00	7	0.096	87.11%	0.06
616	2002/01/29 16:00:00	2002/01/29 16:00:00	1	0.096	87.25%	0.06
617	2002/02/17 10:00:00	2002/02/17 12:00:00	3	0.096	87.39%	0.06
618	2002/03/23 10:00:00	2002/03/23 10:00:00	1	0.096	87.54%	0.06
619	2002/04/20 09:00:00	2002/04/20 09:00:00	1	0.096	87.68%	0.06
620	2002/04/24 11:00:00	2002/04/24 15:00:00	5	0.096	87.82%	0.06
621	2002/09/06 13:00:00	2002/09/06 13:00:00	1	0.096	87.96%	0.06
622	2002/11/08 17:00:00	2002/11/09 20:00:00	28	0.096	88.10%	0.06
623	2002/11/29 11:00:00	2002/11/29 11:00:00	1	0.096	88.24%	0.06
624	2003/02/14 12:00:00	2003/02/14 12:00:00	1	0.096	88.39%	0.06
625	2003/02/20 08:00:00	2003/02/20 08:00:00	1	0.096	88.53%	0.06
626	2003/04/05 00:00:00	2003/04/05 00:00:00	1	0.096	88.67%	0.06
627	2003/04/13 06:00:00	2003/04/13 06:00:00	1	0.096	88.81%	0.06
628	2003/05/10 14:00:00	2003/05/10 14:00:00	1	0.096	88.95%	0.06
629	2003/07/30 08:00:00	2003/07/30 08:00:00	1	0.096	89.09%	0.06
630	2003/07/31 10:00:00	2003/07/31 10:00:00	1	0.096	89.24%	0.06
631	2003/11/01 06:00:00	2003/11/01 06:00:00	1	0.096	89.38%	0.06
632	2003/11/16 00:00:00	2003/11/16 01:00:00	2	0.096	89.52%	0.06
633	2003/12/15 12:00:00	2003/12/15 12:00:00	1	0.096	89.66%	0.06
634	2003/12/22 10:00:00	2003/12/22 10:00:00	1	0.096	89.80%	0.06
635	2004/01/20 21:00:00	2004/01/20 21:00:00	1	0.096	89.94%	0.06
636	2004/04/02 22:00:00	2004/04/02 22:00:00	1	0.096	90.08%	0.06
637	2004/04/04 12:00:00	2004/04/04 12:00:00	1	0.096	90.23%	0.06
638	2004/04/17 12:00:00	2004/04/17 13:00:00	2	0.096	90.37%	0.06
639	2004/04/18 13:00:00	2004/04/18 13:00:00	1	0.096	90.51%	0.06
640	2004/11/08 02:00:00	2004/11/08 11:00:00	10	0.096	90.65%	0.06
641	2004/12/05 06:00:00	2004/12/06 09:00:00	28	0.096	90.79%	0.06
642	2004/12/08 05:00:00	2004/12/08 10:00:00	6	0.096	90.93%	0.06
643	2005/01/05 12:00:00	2005/01/05 12:00:00	1	0.096	91.08%	0.06
644	2005/01/26 13:00:00	2005/01/26 13:00:00	1	0.096	91.22%	0.06
645	2005/02/06 13:00:00	2005/02/06 13:00:00	1	0.096	91.36%	0.06
646	2005/03/18 20:00:00	2005/03/19 14:00:00	19	0.096	91.50%	0.06
647	2005/04/08 22:00:00	2005/04/08 22:00:00	1	0.096	91.64%	0.06
648	2005/04/24 05:00:00	2005/04/24 07:00:00	3	0.096	91.78%	0.06
649	2005/09/20 03:00:00	2005/09/20 04:00:00	2	0.096	91.93%	0.06
650	2005/10/16 15:00:00	2005/10/16 20:00:00	6	0.096	92.07%	0.06

Rank	Start Date	End Date	Duration	Peak	Frequency	Return Period
651	1990/11/20 01:00:00	1990/11/20 01:00:00	1	0.094	92.21%	0.06
652	1990/11/26 02:00:00	1990/11/26 02:00:00	1	0.094	92.35%	0.06
653	2000/10/10 00:00:00	2000/10/10 00:00:00	1	0.094	92.49%	0.06
654	2002/12/21 16:00:00	2002/12/21 16:00:00	1	0.094	92.63%	0.06
655	2003/01/01 12:00:00	2003/01/01 12:00:00	1	0.094	92.78%	0.06
656	2004/01/01 00:00:00	2004/01/01 00:00:00	1	0.094	92.92%	0.06
657	2004/01/02 15:00:00	2004/01/03 00:00:00	10	0.094	93.06%	0.06
658	2006/02/18 05:00:00	2006/02/19 04:00:00	24	0.094	93.20%	0.06
659	2006/03/03 15:00:00	2006/03/03 15:00:00	1	0.094	93.34%	0.06
660	2006/03/10 15:00:00	2006/03/11 17:00:00	27	0.094	93.48%	0.06
661	2006/03/18 15:00:00	2006/03/18 15:00:00	1	0.094	93.63%	0.05
662	2006/03/21 01:00:00	2006/03/21 02:00:00	2	0.094	93.77%	0.05
663	1973/02/06 02:00:00	1973/02/07 08:00:00	31	0.093	93.91%	0.05
664	1971/12/03 00:00:00	1971/12/04 02:00:00	27	0.086	94.05%	0.05
665	1971/12/13 01:00:00	1971/12/13 06:00:00	6	0.086	94.19%	0.05
666	1972/02/05 08:00:00	1972/02/05 13:00:00	6	0.086	94.33%	0.05
667	1972/02/28 13:00:00	1972/02/28 13:00:00	1	0.086	94.48%	0.05
668	1972/05/18 22:00:00	1972/05/18 22:00:00	1	0.086	94.62%	0.05
669	1972/05/20 09:00:00	1972/05/20 09:00:00	1	0.086	94.76%	0.05
670	1972/06/07 04:00:00	1972/06/07 04:00:00	1	0.086	94.90%	0.05
671	1972/06/20 19:00:00	1972/06/20 23:00:00	5	0.086	95.04%	0.05
672	1973/01/04 09:00:00	1973/01/04 11:00:00	3	0.086	95.18%	0.05
673	1973/01/09 07:00:00	1973/01/09 22:00:00	16	0.086	95.33%	0.05
674	1974/05/20 11:00:00	1974/05/20 11:00:00	1	0.086	95.47%	0.05
675	1975/02/10 23:00:00	1975/02/10 23:00:00	1	0.086	95.61%	0.05
676	1975/03/25 12:00:00	1975/03/25 12:00:00	1	0.086	95.75%	0.05
677	1975/03/31 10:00:00	1975/04/01 05:00:00	20	0.086	95.89%	0.05
678	1975/04/05 05:00:00	1975/04/06 22:00:00	42	0.086	96.03%	0.05
679	1975/04/16 10:00:00	1975/04/17 07:00:00	22	0.086	96.18%	0.05
680	1975/04/25 04:00:00	1975/04/25 07:00:00	4	0.086	96.32%	0.05
681	1975/05/19 23:00:00	1975/05/20 18:00:00	20	0.086	96.46%	0.05
682	1975/10/07 05:00:00	1975/10/07 10:00:00	6	0.086	96.60%	0.05
683	1975/11/27 09:00:00	1975/11/28 17:00:00	33	0.086	96.74%	0.05
684	1975/12/12 14:00:00	1975/12/12 17:00:00	4	0.086	96.88%	0.05
685	1975/12/15 11:00:00	1975/12/15 11:00:00	1	0.086	97.03%	0.05
686	1975/12/20 13:00:00	1975/12/20 14:00:00	2	0.086	97.17%	0.05
687	1975/12/24 12:00:00	1975/12/24 12:00:00	1	0.086	97.31%	0.05
688	1976/03/09 20:00:00	1976/03/09 20:00:00	1	0.086	97.45%	0.05
689	1976/03/12 13:00:00	1976/03/12 13:00:00	1	0.086	97.59%	0.05
690	1976/04/04 05:00:00	1976/04/04 05:00:00	1	0.086	97.73%	0.05
691	1976/04/14 20:00:00	1976/04/15 17:00:00	22	0.086	97.88%	0.05
692	1977/05/12 09:00:00	1977/05/12 09:00:00	1	0.086	98.02%	0.05
693	1978/03/07 11:00:00	1978/03/07 11:00:00	1	0.086	98.16%	0.05
694	1980/12/07 12:00:00	1980/12/07 12:00:00	1	0.086	98.30%	0.05
695	1982/09/16 09:00:00	1982/09/17 09:00:00	25	0.086	98.44%	0.05
696	1983/04/11 00:00:00	1983/04/12 05:00:00	30	0.086	98.58%	0.05
697	1983/04/13 08:00:00	1983/04/13 08:00:00	1	0.086	98.73%	0.05

Rank	Start Date	End Date	Duration	Peak	Frequency	Return Period
698	1983/04/17 23:00:00	1983/04/18 07:00:00	9	0.086	98.87%	0.05
699	1983/05/01 06:00:00	1983/05/01 06:00:00	1	0.086	99.01%	0.05
700	1983/06/06 09:00:00	1983/06/06 09:00:00	1	0.086	99.15%	0.05
701	1971/10/16 05:00:00	1971/10/16 05:00:00	1	0.067	99.29%	0.05
702	1973/03/04 03:00:00	1973/03/04 08:00:00	6	0.056	99.43%	0.05
703	1973/02/03 14:00:00	1973/02/03 21:00:00	8	0.055	99.58%	0.05
704	1972/11/16 16:00:00	1972/11/16 16:00:00	1	0.045	99.72%	0.05
705	1973/01/25 21:00:00	1973/01/25 21:00:00	1	0.045	99.86%	0.05
--End of Data----------						

SWMM.out file name: V:\17\17053\engineering\TM\Current\SWMM\17053 post-development_2-5inhr.out
SWMM.out time stamp: 8/2/2019 1:46:43 PM

Q10: 0.000
Q5: 0.000
Q2: 0.000

Peak Flow Statistics Table Values

Rank	Start Date	End Date	Duration	Peak	Frequency	Return Period
1	1993/02/07 23:00:00	1993/02/10 22:00:00	72	6.408	0.20%	36
2	1978/01/03 21:00:00	1978/01/07 21:00:00	97	5.775	0.39%	18
3	1982/11/29 04:00:00	1982/12/02 07:00:00	76	5.379	0.59%	12
4	1980/01/26 22:00:00	1980/01/31 15:00:00	114	5.26	0.78%	9
5	1993/01/06 04:00:00	1993/01/20 22:00:00	355	4.732	0.98%	7.2
6	1978/01/09 15:00:00	1978/01/13 04:00:00	86	4.601	1.17%	6
7	1995/01/03 12:00:00	1995/01/14 15:00:00	268	4.346	1.37%	5.14
8	1998/02/14 11:00:00	1998/02/26 07:00:00	285	4.318	1.57%	4.5
9	1980/02/12 14:00:00	1980/02/23 13:00:00	264	4.214	1.76%	4
10	1976/09/10 03:00:00	1976/09/13 11:00:00	81	4.165	1.96%	3.6
11	1995/02/13 19:00:00	1995/02/16 21:00:00	75	4.007	2.15%	3.27
12	2005/01/07 14:00:00	2005/01/13 14:00:00	145	3.806	2.35%	3
13	1998/01/09 12:00:00	1998/01/12 08:00:00	69	3.651	2.54%	2.77
14	1982/01/20 03:00:00	1982/01/23 11:00:00	81	3.628	2.74%	2.57
15	1983/02/26 12:00:00	1983/03/06 12:00:00	193	3.599	2.94%	2.4
16	1997/12/06 07:00:00	1997/12/09 23:00:00	89	3.575	3.13%	2.25
17	1974/12/04 07:00:00	1974/12/06 16:00:00	58	3.533	3.33%	2.12
18	1978/01/14 15:00:00	1978/01/21 08:00:00	162	3.22	3.52%	2
19	1974/01/04 03:00:00	1974/01/10 08:00:00	150	3.143	3.72%	1.9
20	2004/10/17 07:00:00	2004/10/22 23:00:00	137	3.138	3.91%	1.8
21	1979/01/05 10:00:00	1979/01/08 16:00:00	79	3.04	4.11%	1.71
22	1978/02/05 13:00:00	1978/02/15 09:00:00	237	2.896	4.31%	1.64
23	1982/12/22 16:00:00	1982/12/25 02:00:00	59	2.875	4.50%	1.57
24	1992/03/20 16:00:00	1992/03/25 09:00:00	114	2.739	4.70%	1.5
25	1986/03/08 15:00:00	1986/03/18 21:00:00	247	2.7	4.89%	1.44
26	1986/02/13 13:00:00	1986/02/18 09:00:00	117	2.681	5.09%	1.39
27	1994/02/04 00:00:00	1994/02/10 13:00:00	158	2.646	5.28%	1.33
28	1971/12/22 07:00:00	1971/12/30 06:00:00	192	2.638	5.48%	1.29
29	1983/12/24 19:00:00	1983/12/28 08:00:00	86	2.634	5.68%	1.24
30	2000/02/20 10:00:00	2000/02/25 12:00:00	123	2.568	5.87%	1.2
31	1983/01/23 02:00:00	1983/01/31 01:00:00	192	2.521	6.07%	1.16
32	2004/12/28 08:00:00	2005/01/06 09:00:00	218	2.499	6.26%	1.13
33	1991/02/27 17:00:00	1991/03/03 16:00:00	96	2.422	6.46%	1.09
34	1980/01/07 16:00:00	1980/01/12 00:00:00	105	2.363	6.65%	1.06
35	1992/02/06 12:00:00	1992/02/17 20:00:00	273	2.325	6.85%	1.03
36	1995/03/11 00:00:00	1995/03/13 23:00:00	72	2.313	7.05%	1
37	1976/02/04 13:00:00	1976/02/12 06:00:00	186	2.293	7.24%	0.97
38	1973/01/16 19:00:00	1973/01/20 17:00:00	95	2.272	7.44%	0.95
39	1985/11/29 11:00:00	1985/12/03 22:00:00	108	2.239	7.63%	0.92

Rank	Start Date	End Date	Duration	Peak	Frequency	Return Period
40	1979/01/30 20:00:00	1979/02/05 19:00:00	144	2.231	7.83%	0.9
41	1991/03/25 08:00:00	1991/03/29 13:00:00	102	2.22	8.02%	0.88
42	2003/02/25 02:00:00	2003/03/01 05:00:00	100	2.185	8.22%	0.86
43	1998/02/03 10:00:00	1998/02/11 00:00:00	183	2.179	8.41%	0.84
44	1988/01/05 14:00:00	1988/01/07 11:00:00	46	2.162	8.61%	0.82
45	1995/03/03 07:00:00	1995/03/08 02:00:00	116	2.15	8.81%	0.8
46	1982/03/14 07:00:00	1982/03/20 16:00:00	154	2.143	9.00%	0.78
47	2001/01/11 01:00:00	2001/01/14 04:00:00	76	2.131	9.20%	0.77
48	1976/12/30 16:00:00	1977/01/09 16:00:00	241	2.059	9.39%	0.75
49	1982/03/29 00:00:00	1982/04/03 11:00:00	132	1.978	9.59%	0.74
50	1984/12/26 17:00:00	1984/12/30 01:00:00	81	1.955	9.78%	0.72
51	1983/03/17 07:00:00	1983/03/26 03:00:00	213	1.942	9.98%	0.71
52	1973/02/11 03:00:00	1973/02/15 04:00:00	98	1.873	10.18%	0.69
53	1977/05/07 21:00:00	1977/05/11 08:00:00	84	1.829	10.37%	0.68
54	1972/12/04 12:00:00	1972/12/09 18:00:00	127	1.801	10.57%	0.67
55	1993/02/18 13:00:00	1993/02/22 15:00:00	99	1.774	10.76%	0.66
56	1983/02/07 05:00:00	1983/02/10 05:00:00	73	1.757	10.96%	0.64
57	2003/03/15 14:00:00	2003/03/18 20:00:00	79	1.68	11.15%	0.63
58	2000/04/17 19:00:00	2000/04/20 02:00:00	56	1.643	11.35%	0.62
59	2004/10/27 02:00:00	2004/10/30 07:00:00	78	1.636	11.55%	0.61
60	1996/11/21 15:00:00	1996/11/24 09:00:00	67	1.625	11.74%	0.6
61	2005/02/18 05:00:00	2005/02/26 17:00:00	205	1.6	11.94%	0.59
62	1978/02/27 09:00:00	1978/03/07 18:00:00	202	1.59	12.13%	0.58
63	1986/11/17 23:00:00	1986/11/20 00:00:00	50	1.578	12.33%	0.57
64	1987/10/11 16:00:00	1987/10/14 12:00:00	69	1.548	12.52%	0.56
65	1991/03/19 00:00:00	1991/03/22 21:00:00	94	1.544	12.72%	0.55
66	1990/02/17 08:00:00	1990/02/20 03:00:00	68	1.539	12.92%	0.55
67	1997/01/12 14:00:00	1997/01/17 08:00:00	115	1.537	13.11%	0.54
68	2003/12/25 05:00:00	2003/12/27 15:00:00	59	1.53	13.31%	0.53
69	1982/02/08 10:00:00	1982/02/12 18:00:00	105	1.518	13.50%	0.52
70	2003/04/14 11:00:00	2003/04/16 23:00:00	61	1.517	13.70%	0.51
71	1992/01/05 09:00:00	1992/01/09 02:00:00	90	1.51	13.89%	0.51
72	1978/09/05 18:00:00	1978/09/07 20:00:00	51	1.442	14.09%	0.5
73	1994/02/17 12:00:00	1994/02/22 08:00:00	117	1.432	14.29%	0.49
74	2003/02/11 08:00:00	2003/02/15 11:00:00	100	1.411	14.48%	0.49
75	1986/09/25 00:00:00	1986/09/27 01:00:00	50	1.405	14.68%	0.48
76	1976/03/01 13:00:00	1976/03/05 02:00:00	86	1.394	14.87%	0.47
77	1988/01/17 07:00:00	1988/01/19 21:00:00	63	1.394	15.07%	0.47
78	1996/12/09 17:00:00	1996/12/12 22:00:00	78	1.378	15.26%	0.46
79	1985/11/11 05:00:00	1985/11/14 02:00:00	70	1.368	15.46%	0.46
80	1996/01/31 07:00:00	1996/02/03 20:00:00	86	1.355	15.66%	0.45
81	1977/12/25 21:00:00	1977/12/30 19:00:00	119	1.345	15.85%	0.44
82	1988/12/15 09:00:00	1988/12/23 09:00:00	193	1.34	16.05%	0.44
83	1991/12/28 03:00:00	1991/12/31 22:00:00	92	1.283	16.24%	0.43
84	1987/12/16 15:00:00	1987/12/20 03:00:00	85	1.283	16.44%	0.43
85	1980/03/02 22:00:00	1980/03/08 05:00:00	128	1.28	16.63%	0.42
86	2001/02/23 12:00:00	2001/03/02 07:00:00	164	1.187	16.83%	0.42

Rank	Start Date	End Date	Duration	Peak	Frequency	Return Period
87	1998/05/04 19:00:00	1998/05/07 08:00:00	62	1.168	17.03%	0.41
88	1998/05/12 16:00:00	1998/05/15 07:00:00	64	1.147	17.22%	0.41
89	1997/01/25 19:00:00	1997/01/28 16:00:00	70	1.133	17.42%	0.4
90	2004/02/26 03:00:00	2004/02/28 06:00:00	52	1.117	17.61%	0.4
91	1987/01/04 15:00:00	1987/01/08 15:00:00	97	1.072	17.81%	0.4
92	1992/12/07 08:00:00	1992/12/09 14:00:00	55	1.066	18.00%	0.39
93	1974/03/07 17:00:00	1974/03/10 16:00:00	72	1.055	18.20%	0.39
94	1984/12/16 03:00:00	1984/12/21 23:00:00	141	1.046	18.40%	0.38
95	2005/03/22 21:00:00	2005/03/24 17:00:00	45	1.011	18.59%	0.38
96	2001/02/11 16:00:00	2001/02/15 21:00:00	102	0.988	18.79%	0.38
97	1994/03/24 22:00:00	1994/03/26 19:00:00	46	0.983	18.98%	0.37
98	1978/03/30 18:00:00	1978/04/02 15:00:00	70	0.975	19.18%	0.37
99	1988/12/24 21:00:00	1988/12/27 02:00:00	54	0.974	19.37%	0.36
100	2004/02/22 02:00:00	2004/02/24 19:00:00	66	0.974	19.57%	0.36
101	1985/11/24 18:00:00	1985/11/27 14:00:00	69	0.972	19.77%	0.36
102	1977/08/15 22:00:00	1977/08/19 12:00:00	87	0.96	19.96%	0.35
103	1988/04/20 02:00:00	1988/04/23 19:00:00	90	0.946	20.16%	0.35
104	2006/02/27 20:00:00	2006/03/02 00:00:00	53	0.944	20.35%	0.35
105	2004/11/21 06:00:00	2004/11/23 01:00:00	44	0.939	20.55%	0.34
106	1979/11/07 22:00:00	1979/11/09 16:00:00	43	0.936	20.74%	0.34
107	1981/01/28 06:00:00	1981/01/31 17:00:00	84	0.915	20.94%	0.34
108	2000/03/05 03:00:00	2000/03/10 04:00:00	122	0.909	21.14%	0.33
109	1998/03/24 23:00:00	1998/04/02 06:00:00	200	0.907	21.33%	0.33
110	2005/02/11 01:00:00	2005/02/14 05:00:00	77	0.896	21.53%	0.33
111	1990/04/16 21:00:00	1990/04/18 15:00:00	43	0.879	21.72%	0.32
112	1979/03/16 17:00:00	1979/03/21 18:00:00	122	0.867	21.92%	0.32
113	1979/01/14 18:00:00	1979/01/19 21:00:00	124	0.865	22.11%	0.32
114	1981/02/28 19:00:00	1981/03/06 09:00:00	135	0.864	22.31%	0.32
115	1979/03/27 06:00:00	1979/03/30 20:00:00	87	0.859	22.50%	0.31
116	1992/03/02 07:00:00	1992/03/04 14:00:00	56	0.852	22.70%	0.31
117	1975/04/05 08:00:00	1975/04/10 21:00:00	134	0.849	22.90%	0.31
118	1982/11/09 08:00:00	1982/11/12 04:00:00	69	0.84	23.09%	0.31
119	1995/01/24 04:00:00	1995/01/27 22:00:00	91	0.832	23.29%	0.3
120	1983/11/11 23:00:00	1983/11/14 18:00:00	68	0.824	23.48%	0.3
121	1978/12/17 01:00:00	1978/12/21 01:00:00	97	0.815	23.68%	0.3
122	1990/01/13 07:00:00	1990/01/19 00:00:00	138	0.808	23.87%	0.3
123	1996/02/25 10:00:00	1996/02/29 16:00:00	103	0.808	24.07%	0.29
124	1987/11/04 18:00:00	1987/11/07 13:00:00	68	0.806	24.27%	0.29
125	1999/01/25 07:00:00	1999/01/28 12:00:00	78	0.784	24.46%	0.29
126	1996/03/12 20:00:00	1996/03/15 03:00:00	56	0.783	24.66%	0.29
127	1975/03/05 19:00:00	1975/03/14 17:00:00	215	0.759	24.85%	0.28
128	1978/11/21 17:00:00	1978/11/25 16:00:00	96	0.746	25.05%	0.28
129	1982/01/01 08:00:00	1982/01/03 23:00:00	64	0.741	25.24%	0.28
130	1983/09/30 08:00:00	1983/10/03 01:00:00	66	0.718	25.44%	0.28
131	1980/12/04 14:00:00	1980/12/07 18:00:00	77	0.682	25.64%	0.28
132	1986/01/30 05:00:00	1986/02/01 20:00:00	64	0.68	25.83%	0.27
133	2001/03/10 00:00:00	2001/03/11 21:00:00	46	0.674	26.03%	0.27

Rank	Start Date	End Date	Duration	Peak	Frequency	Return Period
134	2001/11/24 17:00:00	2001/11/26 09:00:00	41	0.663	26.22%	0.27
135	2002/12/16 17:00:00	2002/12/18 16:00:00	48	0.641	26.42%	0.27
136	2003/11/12 09:00:00	2003/11/14 12:00:00	52	0.635	26.61%	0.27
137	1974/03/02 08:00:00	1974/03/04 23:00:00	64	0.624	26.81%	0.26
138	1996/02/20 09:00:00	1996/02/23 16:00:00	80	0.605	27.01%	0.26
139	1973/11/22 23:00:00	1973/11/24 16:00:00	42	0.559	27.20%	0.26
140	1988/04/14 21:00:00	1988/04/16 15:00:00	43	0.556	27.40%	0.26
141	1973/03/06 12:00:00	1973/03/08 14:00:00	51	0.546	27.59%	0.26
142	1984/09/16 14:00:00	1984/09/17 02:00:00	13	0.522	27.79%	0.25
143	1984/11/24 17:00:00	1984/11/26 14:00:00	46	0.514	27.98%	0.25
144	1994/03/19 05:00:00	1994/03/21 09:00:00	53	0.492	28.18%	0.25
145	1979/02/21 02:00:00	1979/02/24 14:00:00	85	0.489	28.38%	0.25
146	1995/04/16 09:00:00	1995/04/20 03:00:00	91	0.47	28.57%	0.25
147	1986/02/07 22:00:00	1986/02/10 12:00:00	63	0.46	28.77%	0.25
148	1977/03/24 20:00:00	1977/03/27 08:00:00	61	0.448	28.96%	0.24
149	1978/11/10 18:00:00	1978/11/15 07:00:00	110	0.442	29.16%	0.24
150	1981/02/08 20:00:00	1981/02/10 21:00:00	50	0.442	29.35%	0.24
151	1973/11/18 02:00:00	1973/11/20 03:00:00	50	0.44	29.55%	0.24
152	1992/12/27 22:00:00	1992/12/31 06:00:00	81	0.439	29.75%	0.24
153	1972/11/14 13:00:00	1972/11/16 20:00:00	56	0.436	29.94%	0.24
154	1985/02/09 06:00:00	1985/02/11 04:00:00	47	0.435	30.14%	0.23
155	1981/11/26 22:00:00	1981/11/30 05:00:00	80	0.433	30.33%	0.23
156	2005/04/28 07:00:00	2005/04/29 21:00:00	39	0.428	30.53%	0.23
157	1989/02/04 04:00:00	1989/02/06 07:00:00	52	0.428	30.72%	0.23
158	1998/11/29 06:00:00	1998/12/01 11:00:00	54	0.425	30.92%	0.23
159	1987/10/31 05:00:00	1987/11/03 02:00:00	70	0.415	31.12%	0.23
160	1983/11/24 23:00:00	1983/11/26 15:00:00	41	0.399	31.31%	0.23
161	1994/04/25 16:00:00	1994/04/28 23:00:00	80	0.395	31.51%	0.22
162	1974/12/28 09:00:00	1974/12/30 21:00:00	61	0.394	31.70%	0.22
163	1982/01/05 08:00:00	1982/01/07 08:00:00	49	0.392	31.90%	0.22
164	1987/02/24 02:00:00	1987/02/26 20:00:00	67	0.388	32.09%	0.22
165	1983/04/20 03:00:00	1983/04/22 15:00:00	61	0.387	32.29%	0.22
166	1973/03/20 06:00:00	1973/03/23 14:00:00	81	0.382	32.49%	0.22
167	1982/09/26 02:00:00	1982/09/28 00:00:00	47	0.379	32.68%	0.22
168	1992/03/26 23:00:00	1992/03/29 01:00:00	51	0.361	32.88%	0.21
169	1989/01/04 05:00:00	1989/01/07 15:00:00	83	0.355	33.07%	0.21
170	2000/02/10 18:00:00	2000/02/15 01:00:00	104	0.231	33.27%	0.21
171	1997/11/26 12:00:00	1997/11/28 18:00:00	55	0.204	33.46%	0.21
172	1997/09/25 07:00:00	1997/09/27 12:00:00	54	0.202	33.66%	0.21
173	1976/04/13 00:00:00	1976/04/16 03:00:00	76	0.187	33.86%	0.21
174	1987/12/04 21:00:00	1987/12/07 12:00:00	64	0.161	34.05%	0.21
175	2005/05/06 00:00:00	2005/05/07 10:00:00	35	0.157	34.25%	0.21
176	1973/02/28 01:00:00	1973/03/01 12:00:00	36	0.151	34.44%	0.21
177	1986/10/09 20:00:00	1986/10/11 06:00:00	35	0.148	34.64%	0.2
178	1984/11/13 08:00:00	1984/11/14 12:00:00	29	0.146	34.83%	0.2
179	1993/01/31 00:00:00	1993/02/01 12:00:00	37	0.146	35.03%	0.2
180	1989/03/25 13:00:00	1989/03/27 03:00:00	39	0.144	35.23%	0.2

Rank	Start Date	End Date	Duration	Peak	Frequency	Return Period
181	1993/02/23 18:00:00	1993/02/25 12:00:00	43	0.143	35.42%	0.2
182	1985/01/28 18:00:00	1985/01/31 01:00:00	56	0.141	35.62%	0.2
183	2002/12/20 04:00:00	2002/12/22 05:00:00	50	0.141	35.81%	0.2
184	1981/03/19 21:00:00	1981/03/21 13:00:00	41	0.14	36.01%	0.2
185	1999/04/07 05:00:00	1999/04/08 23:00:00	43	0.139	36.20%	0.2
186	2004/02/03 02:00:00	2004/02/04 08:00:00	31	0.138	36.40%	0.19
187	1983/04/29 04:00:00	1983/05/01 13:00:00	58	0.138	36.59%	0.19
188	1978/03/09 19:00:00	1978/03/13 06:00:00	84	0.138	36.79%	0.19
189	1985/02/02 11:00:00	1985/02/04 15:00:00	53	0.135	36.99%	0.19
190	1981/02/25 23:00:00	1981/02/27 04:00:00	30	0.134	37.18%	0.19
191	1996/03/04 18:00:00	1996/03/06 15:00:00	46	0.134	37.38%	0.19
192	1998/04/11 01:00:00	1998/04/12 12:00:00	36	0.133	37.57%	0.19
193	1996/01/21 18:00:00	1996/01/23 20:00:00	51	0.133	37.77%	0.19
194	1973/03/11 11:00:00	1973/03/12 23:00:00	37	0.133	37.96%	0.19
195	1995/03/23 07:00:00	1995/03/24 15:00:00	33	0.133	38.16%	0.19
196	2000/10/29 23:00:00	2000/10/30 23:00:00	25	0.132	38.36%	0.18
197	1993/06/05 13:00:00	1993/06/06 15:00:00	27	0.132	38.55%	0.18
198	1988/02/02 06:00:00	1988/02/04 04:00:00	47	0.132	38.75%	0.18
199	1979/10/20 04:00:00	1979/10/21 23:00:00	44	0.132	38.94%	0.18
200	1979/03/01 12:00:00	1979/03/02 13:00:00	26	0.132	39.14%	0.18
201	1978/04/07 02:00:00	1978/04/08 06:00:00	29	0.132	39.33%	0.18
202	1999/04/02 08:00:00	1999/04/03 06:00:00	23	0.131	39.53%	0.18
203	1994/01/25 02:00:00	1994/01/27 11:00:00	58	0.131	39.73%	0.18
204	1975/02/03 10:00:00	1975/02/06 09:00:00	72	0.13	39.92%	0.18
205	1990/05/28 09:00:00	1990/05/29 09:00:00	25	0.129	40.12%	0.18
206	2001/04/07 13:00:00	2001/04/10 07:00:00	67	0.128	40.31%	0.18
207	1994/03/06 08:00:00	1994/03/08 13:00:00	54	0.127	40.51%	0.17
208	1993/11/14 07:00:00	1993/11/15 08:00:00	26	0.125	40.70%	0.17
209	1992/10/30 18:00:00	1992/11/01 02:00:00	33	0.125	40.90%	0.17
210	1987/03/06 02:00:00	1987/03/07 21:00:00	44	0.125	41.10%	0.17
211	1988/11/25 08:00:00	1988/11/26 15:00:00	32	0.124	41.29%	0.17
212	2005/01/28 16:00:00	2005/01/30 00:00:00	33	0.124	41.49%	0.17
213	1996/12/22 15:00:00	1996/12/23 17:00:00	27	0.124	41.68%	0.17
214	2002/11/08 22:00:00	2002/11/11 00:00:00	51	0.123	41.88%	0.17
215	1993/03/26 04:00:00	1993/03/26 23:00:00	20	0.122	42.07%	0.17
216	1982/11/18 22:00:00	1982/11/20 01:00:00	28	0.122	42.27%	0.17
217	1983/02/01 15:00:00	1983/02/04 04:00:00	62	0.119	42.47%	0.17
218	1983/11/20 10:00:00	1983/11/22 00:00:00	39	0.119	42.66%	0.17
219	1975/02/09 08:00:00	1975/02/11 10:00:00	51	0.119	42.86%	0.16
220	1996/10/30 16:00:00	1996/10/31 09:00:00	18	0.118	43.05%	0.16
221	1993/12/11 19:00:00	1993/12/12 20:00:00	26	0.118	43.25%	0.16
222	1999/02/04 13:00:00	1999/02/06 04:00:00	40	0.118	43.44%	0.16
223	2006/03/28 10:00:00	2006/03/29 08:00:00	23	0.117	43.64%	0.16
224	1984/12/11 00:00:00	1984/12/12 08:00:00	33	0.117	43.84%	0.16
225	1991/03/13 17:00:00	1991/03/16 07:00:00	63	0.117	44.03%	0.16
226	2004/12/05 09:00:00	2004/12/07 06:00:00	46	0.116	44.23%	0.16
227	1985/01/07 12:00:00	1985/01/09 07:00:00	44	0.116	44.42%	0.16

Rank	Start Date	End Date	Duration	Peak	Frequency	Return Period
228	1991/01/09 16:00:00	1991/01/10 11:00:00	20	0.116	44.62%	0.16
229	1986/12/06 00:00:00	1986/12/08 05:00:00	54	0.116	44.81%	0.16
230	1997/01/23 05:00:00	1997/01/24 08:00:00	28	0.115	45.01%	0.16
231	1987/10/22 17:00:00	1987/10/24 02:00:00	34	0.114	45.21%	0.16
232	1976/11/12 06:00:00	1976/11/13 19:00:00	38	0.113	45.40%	0.16
233	1983/12/03 18:00:00	1983/12/04 12:00:00	19	0.112	45.60%	0.16
234	1990/01/31 02:00:00	1990/02/01 16:00:00	39	0.112	45.79%	0.15
235	2005/10/18 01:00:00	2005/10/19 06:00:00	30	0.111	45.99%	0.15
236	1974/01/01 08:00:00	1974/01/02 02:00:00	19	0.111	46.18%	0.15
237	1971/12/07 01:00:00	1971/12/07 18:00:00	18	0.11	46.38%	0.15
238	1997/11/13 13:00:00	1997/11/14 16:00:00	28	0.109	46.58%	0.15
239	1998/12/06 00:00:00	1998/12/08 00:00:00	49	0.109	46.77%	0.15
240	2001/02/20 00:00:00	2001/02/20 19:00:00	20	0.109	46.97%	0.15
241	1992/05/22 17:00:00	1992/05/23 09:00:00	17	0.108	47.16%	0.15
242	1977/12/18 04:00:00	1977/12/19 00:00:00	21	0.108	47.36%	0.15
243	1999/04/12 02:00:00	1999/04/12 19:00:00	18	0.106	47.55%	0.15
244	2000/11/25 05:00:00	2000/11/25 20:00:00	16	0.104	47.75%	0.15
245	1975/03/22 08:00:00	1975/03/23 03:00:00	20	0.104	47.95%	0.15
246	2001/01/26 14:00:00	2001/01/27 22:00:00	33	0.104	48.14%	0.15
247	1986/04/06 09:00:00	1986/04/07 00:00:00	16	0.104	48.34%	0.15
248	1983/04/18 02:00:00	1983/04/18 23:00:00	22	0.104	48.53%	0.15
249	1993/03/28 05:00:00	1993/03/28 20:00:00	16	0.103	48.73%	0.15
250	1995/01/15 18:00:00	1995/01/16 11:00:00	18	0.103	48.92%	0.14
251	1990/02/04 11:00:00	1990/02/05 01:00:00	15	0.102	49.12%	0.14
252	1997/02/11 00:00:00	1997/02/11 20:00:00	21	0.102	49.32%	0.14
253	1991/01/03 15:00:00	1991/01/05 09:00:00	43	0.101	49.51%	0.14
254	1990/06/09 11:00:00	1990/06/10 11:00:00	25	0.101	49.71%	0.14
255	1998/04/05 14:00:00	1998/04/07 02:00:00	37	0.101	49.90%	0.14
256	2000/02/16 18:00:00	2000/02/17 07:00:00	14	0.101	50.10%	0.14
257	1974/10/28 16:00:00	1974/10/30 01:00:00	34	0.101	50.29%	0.14
258	1980/01/16 21:00:00	1980/01/18 19:00:00	47	0.101	50.49%	0.14
259	1977/02/24 06:00:00	1977/02/25 12:00:00	31	0.1	50.68%	0.14
260	1992/03/31 18:00:00	1992/04/01 21:00:00	28	0.099	50.88%	0.14
261	1978/01/30 17:00:00	1978/01/31 12:00:00	20	0.099	51.08%	0.14
262	1978/04/15 18:00:00	1978/04/16 11:00:00	18	0.098	51.27%	0.14
263	1995/03/21 10:00:00	1995/03/22 02:00:00	17	0.098	51.47%	0.14
264	1984/12/08 03:00:00	1984/12/08 14:00:00	12	0.098	51.66%	0.14
265	1975/11/27 17:00:00	1975/11/29 13:00:00	45	0.097	51.86%	0.14
266	1989/03/02 14:00:00	1989/03/03 21:00:00	32	0.096	52.05%	0.14
267	1980/03/10 21:00:00	1980/03/11 08:00:00	12	0.096	52.25%	0.14
268	2001/03/06 07:00:00	2001/03/07 13:00:00	31	0.095	52.45%	0.13
269	1998/03/06 06:00:00	1998/03/06 22:00:00	17	0.095	52.64%	0.13
270	1997/12/18 19:00:00	1997/12/19 05:00:00	11	0.094	52.84%	0.13
271	1997/01/03 03:00:00	1997/01/04 00:00:00	22	0.094	53.03%	0.13
272	2001/12/14 17:00:00	2001/12/15 03:00:00	11	0.094	53.23%	0.13
273	2001/12/21 03:00:00	2001/12/21 23:00:00	21	0.093	53.42%	0.13
274	2005/03/19 07:00:00	2005/03/20 05:00:00	23	0.093	53.62%	0.13

Rank	Start Date	End Date	Duration	Peak	Frequency	Return Period
275	1987/03/15 02:00:00	1987/03/15 23:00:00	22	0.093	53.82%	0.13
276	2001/04/21 03:00:00	2001/04/21 23:00:00	21	0.093	54.01%	0.13
277	1979/02/14 05:00:00	1979/02/14 16:00:00	12	0.092	54.21%	0.13
278	1980/03/26 06:00:00	1980/03/26 17:00:00	12	0.092	54.40%	0.13
279	2004/11/27 21:00:00	2004/11/28 09:00:00	13	0.091	54.60%	0.13
280	1982/08/23 00:00:00	1982/08/23 10:00:00	11	0.09	54.79%	0.13
281	1998/01/03 09:00:00	1998/01/03 19:00:00	11	0.09	54.99%	0.13
282	2004/03/02 03:00:00	2004/03/02 14:00:00	12	0.088	55.19%	0.13
283	1994/12/24 15:00:00	1994/12/25 14:00:00	24	0.087	55.38%	0.13
284	1998/01/04 20:00:00	1998/01/05 04:00:00	9	0.087	55.58%	0.13
285	1982/03/26 04:00:00	1982/03/26 16:00:00	13	0.086	55.77%	0.13
286	2004/02/18 20:00:00	2004/02/19 05:00:00	10	0.085	55.97%	0.13
287	1997/01/05 10:00:00	1997/01/06 01:00:00	16	0.085	56.16%	0.13
288	1989/02/09 16:00:00	1989/02/10 16:00:00	25	0.085	56.36%	0.13
289	1984/12/03 12:00:00	1984/12/04 00:00:00	13	0.084	56.56%	0.13
290	1985/03/27 12:00:00	1985/03/28 18:00:00	31	0.084	56.75%	0.12
291	2002/03/18 02:00:00	2002/03/18 11:00:00	10	0.084	56.95%	0.12
292	1981/12/30 12:00:00	1981/12/30 23:00:00	12	0.084	57.14%	0.12
293	2003/11/16 03:00:00	2003/11/16 10:00:00	8	0.083	57.34%	0.12
294	1989/02/13 12:00:00	1989/02/14 04:00:00	17	0.083	57.53%	0.12
295	1997/11/10 19:00:00	1997/11/11 03:00:00	9	0.081	57.73%	0.12
296	1992/12/04 12:00:00	1992/12/04 22:00:00	11	0.081	57.93%	0.12
297	1971/12/13 04:00:00	1971/12/13 15:00:00	12	0.081	58.12%	0.12
298	1973/01/09 10:00:00	1973/01/10 06:00:00	21	0.081	58.32%	0.12
299	1983/10/07 02:00:00	1983/10/07 18:00:00	17	0.081	58.51%	0.12
300	1994/11/10 15:00:00	1994/11/10 22:00:00	8	0.081	58.71%	0.12
301	1998/11/09 10:00:00	1998/11/09 20:00:00	11	0.08	58.90%	0.12
302	1980/01/13 01:00:00	1980/01/13 10:00:00	10	0.08	59.10%	0.12
303	1991/10/27 01:00:00	1991/10/27 20:00:00	20	0.08	59.30%	0.12
304	1983/02/24 12:00:00	1983/02/25 10:00:00	23	0.079	59.49%	0.12
305	1975/12/12 17:00:00	1975/12/13 02:00:00	10	0.079	59.69%	0.12
306	1990/04/04 14:00:00	1990/04/05 01:00:00	12	0.078	59.88%	0.12
307	2004/01/02 18:00:00	2004/01/03 08:00:00	15	0.077	60.08%	0.12
308	1993/12/14 18:00:00	1993/12/15 04:00:00	11	0.077	60.27%	0.12
309	1987/03/24 17:00:00	1987/03/25 03:00:00	11	0.077	60.47%	0.12
310	1992/01/03 08:00:00	1992/01/03 22:00:00	15	0.077	60.67%	0.12
311	2006/03/10 18:00:00	2006/03/12 01:00:00	32	0.077	60.86%	0.12
312	1996/04/18 06:00:00	1996/04/18 13:00:00	8	0.077	61.06%	0.12
313	2004/12/08 08:00:00	2004/12/08 18:00:00	11	0.077	61.25%	0.12
314	1987/12/29 19:00:00	1987/12/30 02:00:00	8	0.076	61.45%	0.12
315	1984/01/03 17:00:00	1984/01/04 00:00:00	8	0.075	61.64%	0.11
316	1998/01/19 06:00:00	1998/01/19 13:00:00	8	0.075	61.84%	0.11
317	1983/01/19 07:00:00	1983/01/20 02:00:00	20	0.075	62.04%	0.11
318	1975/04/16 13:00:00	1975/04/17 15:00:00	27	0.074	62.23%	0.11
319	2000/02/27 21:00:00	2000/02/28 04:00:00	8	0.074	62.43%	0.11
320	1988/11/14 09:00:00	1988/11/14 17:00:00	9	0.074	62.62%	0.11
321	1996/12/27 21:00:00	1996/12/28 16:00:00	20	0.074	62.82%	0.11

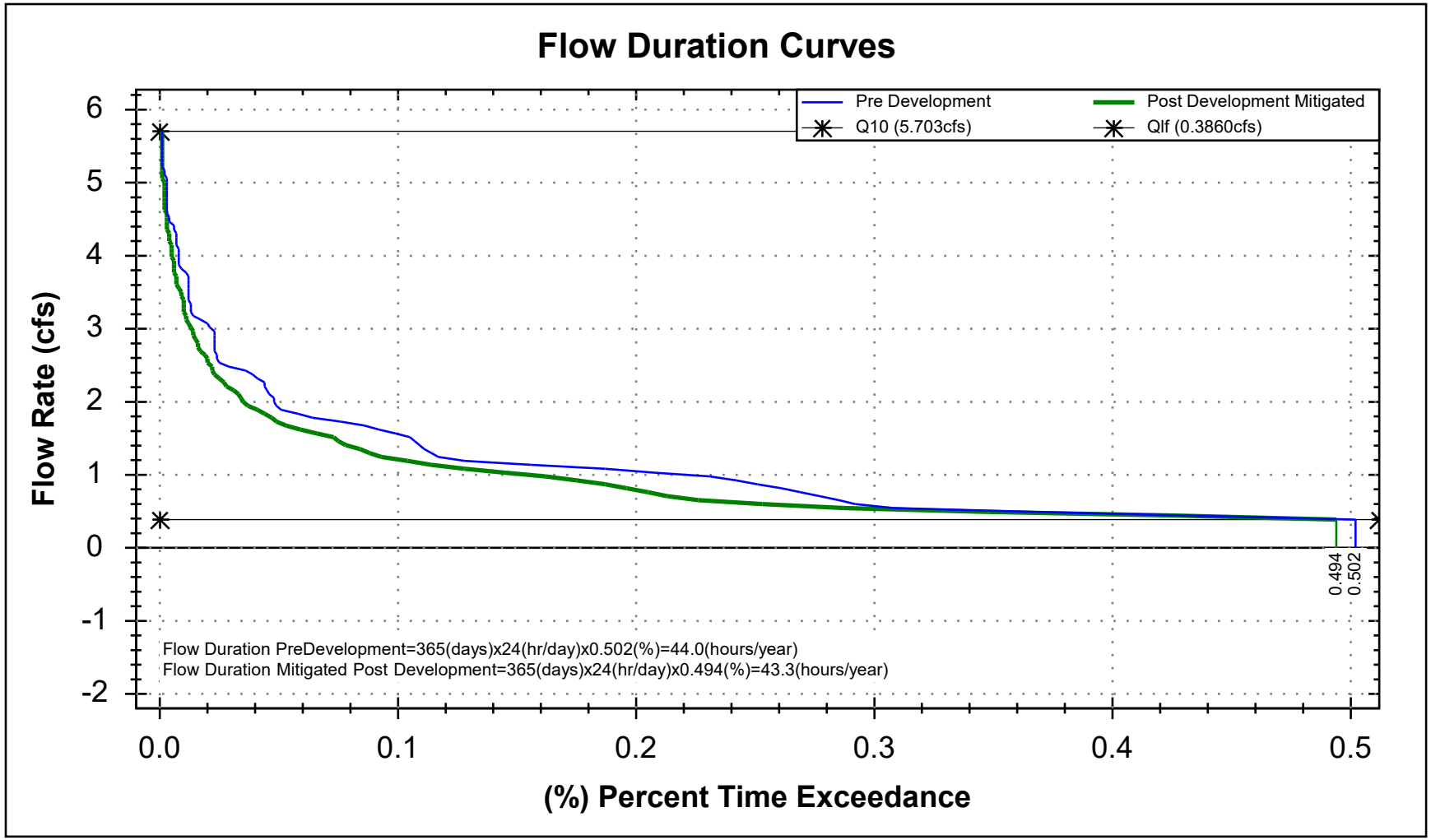
Rank	Start Date	End Date	Duration	Peak	Frequency	Return Period
322	1987/03/21 19:00:00	1987/03/23 02:00:00	32	0.074	63.01%	0.11
323	1999/03/16 01:00:00	1999/03/16 09:00:00	9	0.073	63.21%	0.11
324	1993/11/11 12:00:00	1993/11/12 16:00:00	29	0.073	63.41%	0.11
325	1993/02/26 23:00:00	1993/02/27 09:00:00	11	0.073	63.60%	0.11
326	1993/01/02 11:00:00	1993/01/02 19:00:00	9	0.073	63.80%	0.11
327	1992/12/18 03:00:00	1992/12/18 10:00:00	8	0.073	63.99%	0.11
328	1978/12/01 22:00:00	1978/12/02 04:00:00	7	0.073	64.19%	0.11
329	2006/03/21 04:00:00	2006/03/21 10:00:00	7	0.072	64.38%	0.11
330	1993/12/19 07:00:00	1993/12/19 14:00:00	8	0.072	64.58%	0.11
331	1990/01/02 08:00:00	1990/01/02 18:00:00	11	0.071	64.77%	0.11
332	1972/11/11 10:00:00	1972/11/11 17:00:00	8	0.071	64.97%	0.11
333	2005/03/04 20:00:00	2005/03/05 02:00:00	7	0.071	65.17%	0.11
334	1998/01/29 13:00:00	1998/01/29 19:00:00	7	0.07	65.36%	0.11
335	1973/02/06 05:00:00	1973/02/07 14:00:00	34	0.07	65.56%	0.11
336	1972/04/19 16:00:00	1972/04/19 23:00:00	8	0.07	65.75%	0.11
337	1990/12/19 21:00:00	1990/12/20 12:00:00	16	0.07	65.95%	0.11
338	1975/12/20 16:00:00	1975/12/20 22:00:00	7	0.069	66.14%	0.11
339	1974/04/02 02:00:00	1974/04/02 12:00:00	11	0.069	66.34%	0.11
340	1999/02/09 23:00:00	1999/02/10 07:00:00	9	0.069	66.54%	0.11
341	2000/11/10 11:00:00	2000/11/11 11:00:00	25	0.068	66.73%	0.11
342	1977/03/16 17:00:00	1977/03/16 22:00:00	6	0.068	66.93%	0.11
343	1994/05/07 02:00:00	1994/05/07 14:00:00	13	0.067	67.12%	0.11
344	1991/12/19 05:00:00	1991/12/19 11:00:00	7	0.066	67.32%	0.11
345	1984/11/08 10:00:00	1984/11/08 16:00:00	7	0.066	67.51%	0.1
346	1984/10/17 10:00:00	1984/10/17 18:00:00	9	0.066	67.71%	0.1
347	1995/06/16 13:00:00	1995/06/17 02:00:00	14	0.066	67.91%	0.1
348	1983/03/14 03:00:00	1983/03/14 09:00:00	7	0.065	68.10%	0.1
349	1998/12/19 20:00:00	1998/12/20 03:00:00	8	0.065	68.30%	0.1
350	1986/10/02 21:00:00	1986/10/03 01:00:00	5	0.064	68.49%	0.1
351	1998/09/03 18:00:00	1998/09/04 01:00:00	8	0.064	68.69%	0.1
352	1997/11/30 16:00:00	1997/12/01 05:00:00	14	0.064	68.88%	0.1
353	2003/05/03 15:00:00	2003/05/03 20:00:00	6	0.063	69.08%	0.1
354	1988/12/28 02:00:00	1988/12/28 05:00:00	4	0.063	69.28%	0.1
355	1995/01/21 09:00:00	1995/01/21 19:00:00	11	0.063	69.47%	0.1
356	1979/12/25 10:00:00	1979/12/25 15:00:00	6	0.063	69.67%	0.1
357	1985/12/10 18:00:00	1985/12/11 03:00:00	10	0.063	69.86%	0.1
358	1982/01/11 02:00:00	1982/01/11 14:00:00	13	0.063	70.06%	0.1
359	1983/12/09 14:00:00	1983/12/10 02:00:00	13	0.063	70.25%	0.1
360	1979/01/28 15:00:00	1979/01/29 01:00:00	11	0.062	70.45%	0.1
361	2002/04/24 15:00:00	2002/04/24 21:00:00	7	0.062	70.65%	0.1
362	1982/09/17 09:00:00	1982/09/17 14:00:00	6	0.062	70.84%	0.1
363	1999/07/12 23:00:00	1999/07/13 03:00:00	5	0.062	71.04%	0.1
364	1984/12/13 15:00:00	1984/12/13 18:00:00	4	0.061	71.23%	0.1
365	1975/03/31 13:00:00	1975/04/01 11:00:00	23	0.061	71.43%	0.1
366	2000/01/25 14:00:00	2000/01/25 19:00:00	6	0.061	71.62%	0.1
367	1980/02/01 19:00:00	1980/02/01 22:00:00	4	0.061	71.82%	0.1
368	1999/06/02 05:00:00	1999/06/02 12:00:00	8	0.061	72.02%	0.1

Rank	Start Date	End Date	Duration	Peak	Frequency	Return Period
369	1976/05/07 12:00:00	1976/05/07 15:00:00	4	0.06	72.21%	0.1
370	1992/03/07 21:00:00	1992/03/08 16:00:00	20	0.06	72.41%	0.1
371	1999/04/04 14:00:00	1999/04/04 16:00:00	3	0.059	72.60%	0.1
372	2004/11/08 05:00:00	2004/11/08 16:00:00	12	0.059	72.80%	0.1
373	1995/12/23 13:00:00	1995/12/23 21:00:00	9	0.059	72.99%	0.1
374	1977/12/22 14:00:00	1977/12/23 13:00:00	24	0.059	73.19%	0.1
375	1986/02/19 17:00:00	1986/02/19 19:00:00	3	0.059	73.39%	0.1
376	1998/12/03 02:00:00	1998/12/03 04:00:00	3	0.059	73.58%	0.1
377	1992/10/23 18:00:00	1992/10/24 01:00:00	8	0.058	73.78%	0.1
378	1973/12/01 17:00:00	1973/12/02 18:00:00	26	0.058	73.97%	0.1
379	1974/10/31 15:00:00	1974/10/31 17:00:00	3	0.058	74.17%	0.1
380	1983/02/05 21:00:00	1983/02/05 23:00:00	3	0.058	74.36%	0.1
381	1995/12/13 12:00:00	1995/12/14 02:00:00	15	0.057	74.56%	0.09
382	1991/12/10 19:00:00	1991/12/11 08:00:00	14	0.057	74.76%	0.09
383	2002/01/29 19:00:00	2002/01/29 21:00:00	3	0.057	74.95%	0.09
384	1978/03/22 10:00:00	1978/03/22 19:00:00	10	0.056	75.15%	0.09
385	1998/01/31 23:00:00	1998/02/01 01:00:00	3	0.056	75.34%	0.09
386	1989/02/08 05:00:00	1989/02/08 07:00:00	3	0.056	75.54%	0.09
387	1984/01/16 20:00:00	1984/01/16 22:00:00	3	0.056	75.73%	0.09
388	1999/07/08 09:00:00	1999/07/08 12:00:00	4	0.056	75.93%	0.09
389	1977/04/02 18:00:00	1977/04/02 20:00:00	3	0.056	76.13%	0.09
390	1977/08/20 18:00:00	1977/08/20 19:00:00	2	0.056	76.32%	0.09
391	1992/12/11 20:00:00	1992/12/11 22:00:00	3	0.055	76.52%	0.09
392	1986/12/10 17:00:00	1986/12/10 19:00:00	3	0.055	76.71%	0.09
393	1988/03/01 02:00:00	1988/03/02 06:00:00	29	0.055	76.91%	0.09
394	2006/03/03 18:00:00	2006/03/03 19:00:00	2	0.055	77.10%	0.09
395	2002/02/17 15:00:00	2002/02/17 16:00:00	2	0.055	77.30%	0.09
396	1982/04/11 23:00:00	1982/04/12 00:00:00	2	0.055	77.50%	0.09
397	1983/12/31 18:00:00	1983/12/31 19:00:00	2	0.055	77.69%	0.09
398	2002/01/03 07:00:00	2002/01/03 08:00:00	2	0.055	77.89%	0.09
399	1999/01/31 15:00:00	1999/01/31 16:00:00	2	0.055	78.08%	0.09
400	1981/03/08 14:00:00	1981/03/08 15:00:00	2	0.054	78.28%	0.09
401	2001/12/03 17:00:00	2001/12/03 18:00:00	2	0.054	78.47%	0.09
402	1977/05/12 12:00:00	1977/05/12 13:00:00	2	0.054	78.67%	0.09
403	1981/04/19 03:00:00	1981/04/19 11:00:00	9	0.054	78.86%	0.09
404	1980/04/23 02:00:00	1980/04/24 18:00:00	41	0.054	79.06%	0.09
405	1998/01/16 04:00:00	1998/01/16 05:00:00	2	0.054	79.26%	0.09
406	1996/04/19 15:00:00	1996/04/19 16:00:00	2	0.054	79.45%	0.09
407	1990/02/08 11:00:00	1990/02/08 12:00:00	2	0.054	79.65%	0.09
408	1979/01/12 15:00:00	1979/01/12 16:00:00	2	0.054	79.84%	0.09
409	1983/04/13 11:00:00	1983/04/13 12:00:00	2	0.054	80.04%	0.09
410	1973/11/27 16:00:00	1973/11/27 17:00:00	2	0.053	80.23%	0.09
411	1997/02/27 10:00:00	1997/02/27 16:00:00	7	0.053	80.43%	0.09
412	1975/12/15 14:00:00	1975/12/15 15:00:00	2	0.053	80.63%	0.09
413	2001/01/08 21:00:00	2001/01/09 15:00:00	19	0.053	80.82%	0.09
414	2001/11/29 16:00:00	2001/11/29 17:00:00	2	0.053	81.02%	0.09
415	1978/04/04 20:00:00	1978/04/04 21:00:00	2	0.053	81.21%	0.09

Rank	Start Date	End Date	Duration	Peak	Frequency	Return Period
416	2004/01/01 03:00:00	2004/01/01 04:00:00	2	0.053	81.41%	0.09
417	1983/11/18 05:00:00	1983/11/18 06:00:00	2	0.053	81.60%	0.09
418	1983/04/12 01:00:00	1983/04/12 09:00:00	9	0.053	81.80%	0.09
419	1982/01/28 21:00:00	1982/01/28 22:00:00	2	0.053	82.00%	0.09
420	2005/10/16 23:00:00	2005/10/17 01:00:00	3	0.053	82.19%	0.09
421	2002/01/28 12:00:00	2002/01/28 13:00:00	2	0.052	82.39%	0.09
422	1982/12/07 23:00:00	1982/12/08 00:00:00	2	0.052	82.58%	0.09
423	1975/12/24 15:00:00	1975/12/24 16:00:00	2	0.052	82.78%	0.09
424	1982/08/26 16:00:00	1982/08/27 15:00:00	24	0.052	82.97%	0.09
425	1982/03/23 17:00:00	1982/03/23 18:00:00	2	0.052	83.17%	0.09
426	1996/11/29 03:00:00	1996/11/29 04:00:00	2	0.052	83.37%	0.09
427	2004/04/17 16:00:00	2004/04/18 17:00:00	26	0.051	83.56%	0.08
428	2003/02/20 11:00:00	2003/02/20 12:00:00	2	0.051	83.76%	0.08
429	1990/03/11 10:00:00	1990/03/11 11:00:00	2	0.051	83.95%	0.08
430	1996/12/06 05:00:00	1996/12/06 06:00:00	2	0.051	84.15%	0.08
431	1987/12/26 16:00:00	1987/12/26 17:00:00	2	0.051	84.34%	0.08
432	1975/04/25 07:00:00	1975/04/25 11:00:00	5	0.051	84.54%	0.08
433	1973/01/04 14:00:00	1973/01/04 15:00:00	2	0.051	84.74%	0.08
434	1975/03/25 15:00:00	1975/03/25 16:00:00	2	0.051	84.93%	0.08
435	1985/12/19 02:00:00	1985/12/19 03:00:00	2	0.051	85.13%	0.08
436	2000/01/01 08:00:00	2000/01/02 05:00:00	22	0.051	85.32%	0.08
437	2001/12/30 01:00:00	2001/12/30 02:00:00	2	0.05	85.52%	0.08
438	1973/02/03 17:00:00	1973/02/04 01:00:00	9	0.05	85.71%	0.08
439	1989/02/03 03:00:00	1989/02/03 04:00:00	2	0.05	85.91%	0.08
440	1976/03/12 16:00:00	1976/03/12 17:00:00	2	0.05	86.11%	0.08
441	1999/01/21 12:00:00	1999/01/21 13:00:00	2	0.05	86.30%	0.08
442	1995/05/13 10:00:00	1995/05/14 06:00:00	21	0.05	86.50%	0.08
443	1990/05/31 18:00:00	1990/05/31 19:00:00	2	0.05	86.69%	0.08
444	2004/04/03 01:00:00	2004/04/03 02:00:00	2	0.05	86.89%	0.08
445	1980/05/11 04:00:00	1980/05/11 05:00:00	2	0.05	87.08%	0.08
446	1975/01/07 11:00:00	1975/01/07 12:00:00	2	0.05	87.28%	0.08
447	1995/05/06 09:00:00	1995/05/06 10:00:00	2	0.049	87.48%	0.08
448	2004/04/04 15:00:00	2004/04/04 16:00:00	2	0.049	87.67%	0.08
449	1998/11/12 21:00:00	1998/11/12 22:00:00	2	0.049	87.87%	0.08
450	1987/04/05 18:00:00	1987/04/05 19:00:00	2	0.049	88.06%	0.08
451	1986/12/20 09:00:00	1986/12/20 10:00:00	2	0.049	88.26%	0.08
452	1998/09/18 03:00:00	1998/09/18 04:00:00	2	0.049	88.45%	0.08
453	1985/10/22 03:00:00	1985/10/22 04:00:00	2	0.049	88.65%	0.08
454	1994/04/24 07:00:00	1994/04/24 08:00:00	2	0.049	88.85%	0.08
455	1989/10/22 10:00:00	1989/10/22 12:00:00	3	0.048	89.04%	0.08
456	2000/01/31 07:00:00	2000/01/31 08:00:00	2	0.048	89.24%	0.08
457	1973/03/04 11:00:00	1973/03/04 11:00:00	1	0.048	89.43%	0.08
458	1993/11/30 08:00:00	1993/11/30 09:00:00	2	0.048	89.63%	0.08
459	2005/02/06 16:00:00	2005/02/06 17:00:00	2	0.048	89.82%	0.08
460	2003/12/22 13:00:00	2003/12/22 14:00:00	2	0.048	90.02%	0.08
461	1984/01/14 09:00:00	1984/01/14 09:00:00	1	0.047	90.22%	0.08
462	2002/03/23 13:00:00	2002/03/23 14:00:00	2	0.047	90.41%	0.08

Rank	Start Date	End Date	Duration	Peak	Frequency	Return Period
463	1984/11/21 13:00:00	1984/11/21 14:00:00	2	0.046	90.61%	0.08
464	1985/03/08 16:00:00	1985/03/08 16:00:00	1	0.046	90.80%	0.08
465	1973/03/28 12:00:00	1973/03/28 12:00:00	1	0.046	91.00%	0.08
466	1998/09/22 07:00:00	1998/09/22 07:00:00	1	0.046	91.19%	0.08
467	1980/04/28 22:00:00	1980/04/28 22:00:00	1	0.046	91.39%	0.08
468	2005/04/24 10:00:00	2005/04/24 11:00:00	2	0.046	91.59%	0.08
469	1993/11/23 06:00:00	1993/11/23 06:00:00	1	0.046	91.78%	0.08
470	1987/10/29 04:00:00	1987/10/29 04:00:00	1	0.046	91.98%	0.08
471	2003/01/01 15:00:00	2003/01/01 15:00:00	1	0.046	92.17%	0.08
472	2001/01/24 16:00:00	2001/01/24 16:00:00	1	0.046	92.37%	0.08
473	1972/02/05 16:00:00	1972/02/05 17:00:00	2	0.046	92.56%	0.08
474	1974/01/20 21:00:00	1974/01/20 21:00:00	1	0.046	92.76%	0.08
475	1986/02/28 22:00:00	1986/02/28 22:00:00	1	0.046	92.95%	0.08
476	1982/02/20 18:00:00	1982/02/20 18:00:00	1	0.046	93.15%	0.08
477	1977/04/01 17:00:00	1977/04/01 17:00:00	1	0.046	93.35%	0.08
478	2000/11/20 17:00:00	2000/11/20 17:00:00	1	0.046	93.54%	0.08
479	1995/04/23 20:00:00	1995/04/23 20:00:00	1	0.045	93.74%	0.08
480	2001/02/07 13:00:00	2001/02/07 13:00:00	1	0.045	93.93%	0.08
481	2006/03/18 18:00:00	2006/03/18 18:00:00	1	0.045	94.13%	0.08
482	1982/12/21 15:00:00	1982/12/21 15:00:00	1	0.045	94.32%	0.08
483	1979/07/20 07:00:00	1979/07/20 08:00:00	2	0.045	94.52%	0.08
484	1982/03/02 18:00:00	1982/03/02 18:00:00	1	0.044	94.72%	0.07
485	1985/03/02 20:00:00	1985/03/02 20:00:00	1	0.044	94.91%	0.07
486	2000/01/16 15:00:00	2000/01/16 15:00:00	1	0.044	95.11%	0.07
487	1997/02/08 16:00:00	1997/02/08 16:00:00	1	0.044	95.30%	0.07
488	1985/02/20 21:00:00	1985/02/20 21:00:00	1	0.044	95.50%	0.07
489	2005/01/26 16:00:00	2005/01/26 16:00:00	1	0.044	95.69%	0.07
490	1976/03/09 23:00:00	1976/03/09 23:00:00	1	0.044	95.89%	0.07
491	1999/12/14 18:00:00	1999/12/14 19:00:00	2	0.043	96.09%	0.07
492	1998/09/28 10:00:00	1998/09/28 10:00:00	1	0.042	96.28%	0.07
493	1991/03/11 05:00:00	1991/03/11 05:00:00	1	0.042	96.48%	0.07
494	1981/01/26 16:00:00	1981/01/26 16:00:00	1	0.042	96.67%	0.07
495	1985/09/19 14:00:00	1985/09/19 15:00:00	2	0.042	96.87%	0.07
496	1990/04/23 23:00:00	1990/04/23 23:00:00	1	0.042	97.06%	0.07
497	1979/12/21 16:00:00	1979/12/21 16:00:00	1	0.042	97.26%	0.07
498	1983/04/02 17:00:00	1983/04/02 17:00:00	1	0.042	97.46%	0.07
499	1983/08/09 19:00:00	1983/08/09 20:00:00	2	0.042	97.65%	0.07
500	1977/01/26 04:00:00	1977/01/26 04:00:00	1	0.041	97.85%	0.07
501	1973/01/26 00:00:00	1973/01/26 00:00:00	1	0.041	98.04%	0.07
502	2004/01/21 00:00:00	2004/01/21 00:00:00	1	0.041	98.24%	0.07
503	1982/03/12 14:00:00	1982/03/12 14:00:00	1	0.04	98.43%	0.07
504	1971/12/04 05:00:00	1971/12/04 06:00:00	2	0.04	98.63%	0.07
505	1975/05/20 21:00:00	1975/05/20 22:00:00	2	0.04	98.83%	0.07
506	2004/04/02 01:00:00	2004/04/02 01:00:00	1	0.04	99.02%	0.07
507	1987/04/04 00:00:00	1987/04/04 00:00:00	1	0.038	99.22%	0.07
508	1979/03/13 10:00:00	1979/03/13 10:00:00	1	0.038	99.41%	0.07
509	2003/05/10 17:00:00	2003/05/10 17:00:00	1	0.037	99.61%	0.07

Rank	Start Date	End Date	Duration	Peak	Frequency	Return Period
510	2003/04/13 09:00:00	2003/04/13 09:00:00	1	0.033	99.80%	0.07
--End of Data----------						


Flow Duration Curves
Pre Development
Post Development Mitigated
Q10 (5.703cfs)
Qlf (0.3860cfs)
Flow Rate (cfs)
6
5
4
3
2
1
0
-1
-2
0.0
0.1
0.2
0.3
0.4
0.5
(%) Percent Time Exceedance
0.494
0.502
Flow Duration PreDevelopment=365(days)x24(hr/day)x0.502(%)=44.0(hours/year)
Flow Duration Mitigated Post Development=365(days)x24(hr/day)x0.494(%)=43.3(hours/year)

Compare Post-Development Curve to Pre-Development Curve

post-development SWMM file: V:\17\17053\engineering\TM\Current\SWMM\17053 post-development_2-5inhr.out
post-development time stamp: 8/2/2019 1:46:43 PM
Compared to:
pre-development SWMM file: V:\17\17053\engineering\TM\Current\SWMM\17053 Pre-development.out
pre-development time stamp: 8/2/2019 2:00:05 PM

Post PT #	Flow Rate	Post Dev % Exceed	Pre Dev % Exceed	%Ex post < %Ex pre	%Ex post > %Ex pre	%Ex post > 110% %Ex pre	Pass/Fail
0	0.39	0.49	0.50	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
1	0.44	0.43	0.43	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
2	0.49	0.35	0.37	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
3	0.55	0.29	0.31	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
4	0.60	0.25	0.29	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
5	0.65	0.23	0.29	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
6	0.71	0.21	0.28	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
7	0.76	0.21	0.27	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
8	0.82	0.20	0.26	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
9	0.87	0.19	0.25	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
10	0.92	0.18	0.24	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
11	0.98	0.16	0.23	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
12	1.03	0.15	0.21	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
13	1.08	0.13	0.19	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
14	1.14	0.11	0.16	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
15	1.19	0.10	0.13	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
16	1.25	0.09	0.12	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
17	1.30	0.09	0.11	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
18	1.35	0.08	0.11	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
19	1.41	0.08	0.11	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
20	1.46	0.08	0.11	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
21	1.51	0.07	0.11	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
22	1.57	0.07	0.10	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
23	1.62	0.06	0.09	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
24	1.68	0.05	0.09	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
25	1.73	0.05	0.08	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
26	1.78	0.05	0.06	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
27	1.84	0.04	0.06	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
28	1.89	0.04	0.05	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
29	1.94	0.04	0.05	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
30	2.00	0.04	0.05	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
31	2.05	0.03	0.05	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration

Post PT #	Flow Rate	Post Dev % Exceed	Pre Dev % Exceed	%Ex post < %Ex pre	%Ex post > %Ex pre	%Ex post > 110% %Ex pre	Pass/Fail
32	2.10	0.03	0.05	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
33	2.16	0.03	0.05	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
34	2.21	0.03	0.04	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
35	2.27	0.03	0.04	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
36	2.32	0.03	0.04	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
37	2.37	0.02	0.04	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
38	2.43	0.02	0.04	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
39	2.48	0.02	0.03	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
40	2.53	0.02	0.03	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
41	2.59	0.02	0.02	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
42	2.64	0.02	0.02	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
43	2.70	0.02	0.02	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
44	2.75	0.02	0.02	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
45	2.80	0.02	0.02	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
46	2.86	0.02	0.02	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
47	2.91	0.01	0.02	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
48	2.96	0.01	0.02	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
49	3.02	0.01	0.02	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
50	3.07	0.01	0.02	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
51	3.13	0.01	0.02	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
52	3.18	0.01	0.01	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
53	3.23	0.01	0.01	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
54	3.29	0.01	0.01	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
55	3.34	0.01	0.01	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
56	3.39	0.01	0.01	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
57	3.45	0.01	0.01	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
58	3.50	0.01	0.01	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
59	3.55	0.01	0.01	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
60	3.61	0.01	0.01	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
61	3.66	0.01	0.01	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
62	3.72	0.01	0.01	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
63	3.77	0.01	0.01	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
64	3.82	0.01	0.01	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
65	3.88	0.01	0.01	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
66	3.93	0.01	0.01	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
67	3.98	0.01	0.01	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
68	4.04	0.01	0.01	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
69	4.09	0.01	0.01	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
70	4.15	0.01	0.01	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
71	4.20	0.00	0.01	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration

Post PT #	Flow Rate	Post Dev % Exceed	Pre Dev % Exceed	%Ex post < %Ex pre	%Ex post > %Ex pre	%Ex post > 110% %Ex pre	Pass/Fail
72	4.25	0.00	0.01	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
73	4.31	0.00	0.01	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
74	4.36	0.00	0.01	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
75	4.41	0.00	0.01	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
76	4.47	0.00	0.00	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
77	4.52	0.00	0.00	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
78	4.58	0.00	0.00	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
79	4.63	0.00	0.00	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
80	4.68	0.00	0.00	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
81	4.74	0.00	0.00	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
82	4.79	0.00	0.00	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
83	4.84	0.00	0.00	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
84	4.90	0.00	0.00	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
85	4.95	0.00	0.00	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
86	5.00	0.00	0.00	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
87	5.06	0.00	0.00	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
88	5.11	0.00	0.00	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
89	5.17	0.00	0.00	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
90	5.22	0.00	0.00	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
91	5.27	0.00	0.00	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
92	5.33	0.00	0.00	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
93	5.38	0.00	0.00	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
94	5.43	0.00	0.00	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
95	5.49	0.00	0.00	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
96	5.54	0.00	0.00	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
97	5.60	0.00	0.00	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
98	5.65	0.00	0.00	TRUE	FALSE	FALSE	Pass: Post Duration < Pre Duration
99	5.70	0.00	0.00	TRUE	FALSE	FALSE	Pass- Qpost Above Flow Control Upper Limit

Duration Table Summary at Project Discharge Point

file name: V:\17\17053\engineering\TM\Current\SWMM\17053 Pre-development.out
time stamp: 8/2/2019 2:00:05 PM

DISCHARGE		Number of periods when discharge was equal to or greater than DISCHARGE column but less than that shown on the next line		
Bin Number	Discharge Rate	Number of Periods	Total Periods Exceeding	Percent Time Exceeded
1	0.39	210	1517	0.502
2	0.44	197	1307	0.433
3	0.49	181	1110	0.368
4	0.55	46	929	0.308
5	0.60	21	883	0.292
6	0.65	24	862	0.285
7	0.71	25	838	0.277
8	0.76	26	813	0.269
9	0.82	30	787	0.261
10	0.87	26	757	0.251
11	0.92	34	731	0.242
12	0.98	68	697	0.231
13	1.03	63	629	0.208
14	1.08	95	566	0.187
15	1.14	84	471	0.156
16	1.19	35	387	0.128
17	1.25	8	352	0.117
18	1.30	8	344	0.114
19	1.35	6	336	0.111
20	1.41	7	330	0.109
21	1.46	7	323	0.107
22	1.51	18	316	0.105
23	1.57	19	298	0.099
24	1.62	20	279	0.092
25	1.67	29	259	0.086
26	1.73	38	230	0.076
27	1.78	18	192	0.064
28	1.84	19	174	0.058
29	1.89	6	155	0.051
30	1.94	3	149	0.049
31	2.00	2	146	0.048
32	2.05	5	144	0.048
33	2.10	4	139	0.046
34	2.16	2	135	0.045
35	2.21	1	133	0.044
36	2.27	7	132	0.044
37	2.32	7	125	0.041
38	2.37	10	118	0.039
39	2.43	21	108	0.036
40	2.48	11	87	0.029
41	2.53	3	76	0.025
42	2.59	2	73	0.024
43	2.64	1	71	0.024
44	2.70	0	70	0.023
45	2.75	1	70	0.023
46	2.80	0	69	0.023
47	2.86	0	69	0.023
48	2.91	1	69	0.023
49	2.96	5	68	0.023
50	3.02	4	63	0.021
51	3.07	9	59	0.020

Bin Number	Discharge Rate	Number of Periods	Total Periods Exceeding	Percent Time Exceeded
52	3.12	8	50	0.017
53	3.18	3	42	0.014
54	3.23	1	39	0.013
55	3.29	0	38	0.013
56	3.34	2	38	0.013
57	3.39	0	36	0.012
58	3.45	0	36	0.012
59	3.50	0	36	0.012
60	3.55	0	36	0.012
61	3.61	0	36	0.012
62	3.66	1	36	0.012
63	3.72	2	35	0.012
64	3.77	6	33	0.011
65	3.82	2	27	0.009
66	3.88	1	25	0.008
67	3.93	0	24	0.008
68	3.98	1	24	0.008
69	4.04	0	23	0.008
70	4.09	2	23	0.008
71	4.15	0	21	0.007
72	4.20	1	21	0.007
73	4.25	0	20	0.007
74	4.31	1	20	0.007
75	4.36	2	19	0.006
76	4.41	4	17	0.006
77	4.47	1	13	0.004
78	4.52	3	12	0.004
79	4.57	1	9	0.003
80	4.63	0	8	0.003
81	4.68	0	8	0.003
82	4.74	0	8	0.003
83	4.79	0	8	0.003
84	4.84	0	8	0.003
85	4.90	0	8	0.003
86	4.95	0	8	0.003
87	5.00	0	8	0.003
88	5.06	2	8	0.003
89	5.11	1	6	0.002
90	5.17	1	5	0.002
91	5.22	0	4	0.001
92	5.27	0	4	0.001
93	5.33	0	4	0.001
94	5.38	0	4	0.001
95	5.43	0	4	0.001
96	5.49	0	4	0.001
97	5.54	0	4	0.001
98	5.60	0	4	0.001
99	5.65	1	4	0.001
100	5.70	0	3	0.001
---------End of Data----------				

Duration Table Summary at Project Discharge Point

file name: V:\17\17053\engineering\TM\Current\SWMM\17053 post-development_2-5inhr.out
time stamp: 8/2/2019 1:46:43 PM

DISCHARGE		Number of periods when discharge was equal to or greater than DISCHARGE column but less than that shown on the next line		
Bin Number	Discharge Rate	Number of Periods	Total Periods Exceeding	Percent Time Exceeded
1	0.39	201	1493	0.494
2	0.44	242	1292	0.428
3	0.49	183	1050	0.348
4	0.55	103	867	0.287
5	0.60	81	764	0.253
6	0.65	41	683	0.226
7	0.71	24	642	0.213
8	0.76	25	618	0.205
9	0.82	29	593	0.196
10	0.87	35	564	0.187
11	0.92	39	529	0.175
12	0.98	53	490	0.162
13	1.03	51	437	0.145
14	1.08	42	386	0.128
15	1.14	30	344	0.114
16	1.19	32	314	0.104
17	1.25	16	282	0.093
18	1.30	12	266	0.088
19	1.35	18	254	0.084
20	1.41	10	236	0.078
21	1.46	7	226	0.075
22	1.51	21	219	0.073
23	1.57	20	198	0.066
24	1.62	19	178	0.059
25	1.67	10	159	0.053
26	1.73	7	149	0.049
27	1.78	8	142	0.047
28	1.84	10	134	0.044
29	1.89	12	124	0.041
30	1.94	5	112	0.037
31	2.00	5	107	0.035
32	2.05	3	102	0.034
33	2.10	6	99	0.033
34	2.16	8	93	0.031
35	2.21	4	85	0.028
36	2.27	7	81	0.027
37	2.32	6	74	0.025
38	2.37	1	68	0.023
39	2.43	1	67	0.022
40	2.48	6	66	0.022
41	2.53	1	60	0.020
42	2.59	2	59	0.020
43	2.64	6	57	0.019
44	2.70	3	51	0.017
45	2.75	1	48	0.016
46	2.80	2	47	0.016
47	2.86	3	45	0.015
48	2.91	1	42	0.014
49	2.96	3	41	0.014
50	3.02	2	38	0.013
51	3.07	2	36	0.012

Bin Number	Discharge Rate	Number of Periods	Total Periods Exceeding	Percent Time Exceeded
52	3.12	2	34	0.011
53	3.18	3	32	0.011
54	3.23	0	29	0.010
55	3.29	0	29	0.010
56	3.34	0	29	0.010
57	3.39	1	29	0.010
58	3.45	2	28	0.009
59	3.50	2	26	0.009
60	3.55	2	24	0.008
61	3.61	2	22	0.007
62	3.66	0	20	0.007
63	3.72	1	20	0.007
64	3.77	1	19	0.006
65	3.82	1	18	0.006
66	3.88	0	17	0.006
67	3.93	1	17	0.006
68	3.98	1	16	0.005
69	4.04	0	15	0.005
70	4.09	0	15	0.005
71	4.15	2	15	0.005
72	4.20	2	13	0.004
73	4.25	0	11	0.004
74	4.31	2	11	0.004
75	4.36	0	9	0.003
76	4.41	0	9	0.003
77	4.47	1	9	0.003
78	4.52	0	8	0.003
79	4.57	1	8	0.003
80	4.63	0	7	0.002
81	4.68	1	7	0.002
82	4.74	0	6	0.002
83	4.79	1	6	0.002
84	4.84	0	5	0.002
85	4.90	0	5	0.002
86	4.95	0	5	0.002
87	5.00	1	5	0.002
88	5.06	0	4	0.001
89	5.11	0	4	0.001
90	5.17	0	4	0.001
91	5.22	1	4	0.001
92	5.27	0	3	0.001
93	5.33	1	3	0.001
94	5.38	0	2	0.001
95	5.43	0	2	0.001
96	5.49	0	2	0.001
97	5.54	0	2	0.001
98	5.60	0	2	0.001
99	5.65	0	2	0.001
100	5.70	0	2	0.001
---------End of Data----------				

END OF STATISTICS ANALYSIS

```
[TITLE]
;;Project Title/Notes
Post-Development
  Drawdown Time:  1 hours

[OPTIONS]
;;Option             Value
FLOW_UNITS           CFS
INFILTRATION         GREEN_AMPT
FLOW_ROUTING         KINWAVE
LINK_OFFSETS         DEPTH
MIN_SLOPE            0
ALLOW_PONDING        NO
SKIP_STEADY_STATE    NO

START_DATE           10/16/1971
START_TIME           04:00:00
REPORT_START_DATE    10/16/1971
REPORT_START_TIME    04:00:00
END_DATE             03/29/2006
END_TIME             08:00:00
SWEEP_START          01/01
SWEEP_END            12/31
DRY_DAYS             0
REPORT_STEP          01:00:00
WET_STEP             01:00:00
DRY_STEP             01:00:00
ROUTING_STEP         0:01:00
RULE_STEP            00:00:00

INERTIAL_DAMPING     PARTIAL
NORMAL_FLOW_LIMITED  BOTH
FORCE_MAIN_EQUATION  H-W
VARIABLE_STEP        0.75
LENGTHENING_STEP     0
MIN_SURFAREA         0
MAX_TRIALS           0
HEAD_TOLERANCE       0
SYS_FLOW_TOL         5
LAT_FLOW_TOL         5
MINIMUM_STEP         0.5
THREADS              1

[EVAPORATION]
;;Data Source    Parameters
;;-------------- ----------------
MONTHLY          0.060  0.080  0.110  0.16   0.18   0.21   0.21   0.20   0.16   0.12   0.08   0.06
DRY_ONLY         NO

[RAINGAGES]
;;Name           Format    Interval SCF      Source
;;-------------- --------- ------ ------ ----------
```

```
Temecula_RG      INTENSITY 1:00     1.0      FILE       "R:\Rain gage dat\048844 Temecula Rain data.dat" 048844
IN

[SUBCATCHMENTS]
;;Name           Rain Gage        Outlet           Area     %Imperv  Width    %Slope   CurbLen  SnowPack
;;-------------- ---------------- ---------------- -------- -------- -------- -------- -------- ----------------
DMA-A            Temecula_RG      POC-1            2.1863   0        372      8.8      0
DMA-B            Temecula_RG      POC-1            0.2729   52.8     620      18       0
DMA-C            Temecula_RG      POC-1            0.1505   100      384      1.5      0
DMA-D            Temecula_RG      POC-1            1.5673   0        416      8.1      0
DMA-E            Temecula_RG      POC-1            0.8824   31       1040     0.5      0
DMA-F            Temecula_RG      POC-1            0.5648   49       1297     0.5      0
DMA-G            Temecula_RG      POC-1            0.7984   0        546      0.5      0
DMA-H            Temecula_RG      POC-1            .2428    50       620      18       0

[SUBAREAS]
;;Subcatchment   N-Imperv   N-Perv     S-Imperv   S-Perv     PctZero    RouteTo    PctRouted
;;-------------- ---------- ---------- ---------- ---------- ---------- ---------- ----------
DMA-A            0.012      0.1        0.05       0.1        25         OUTLET
DMA-B            0.012      0.1        0.05       0.1        25         OUTLET
DMA-C            0.012      0.1        0.05       0.1        25         OUTLET
DMA-D            0.012      0.1        0.05       0.1        25         OUTLET
DMA-E            0.012      0.1        0.05       0.1        25         OUTLET
DMA-F            0.012      0.1        0.05       0.1        25         OUTLET
DMA-G            0.012      0.1        0.05       0.1        25         OUTLET
DMA-H            0.012      0.1        0.05       0.1        25         OUTLET

[INFILTRATION]
;;Subcatchment   Suction    Ksat       IMD
;;-------------- ---------- ---------- ----------
DMA-A            6          .01875     0.32
DMA-B            9          0.01875    0.33
DMA-C            9          0.01875    0.33
DMA-D            9          0.01875    0.33
DMA-E            9          0.01875    0.33
DMA-F            9          0.01875    0.33
DMA-G            9          0.01875    0.33
DMA-H            9          .01875     .33

[LID_CONTROLS]
;;Name           Type/Layer Parameters
;;-------------- ---------- ----------
BMP-1            BC
BMP-1            SURFACE    6          0.05       0          0          5
BMP-1            SOIL       24         0.4        0.2        0.1        5          5          1.5
BMP-1            STORAGE    12         0.67       0.38       0
BMP-1            DRAIN      0.831118561951711 0.5        3          6          0          0

BMP-2            BC
BMP-2            SURFACE    6          0.05       0          0          5
BMP-2            SOIL       18         0.4        0.2        0.1        5          5          1.5
BMP-2            STORAGE    12         0.67       0.38       0
```

```
BMP-2            DRAIN      0.842545866683357 0.5        3          6          0          0

BMP-3            BC
BMP-3            SURFACE    6          0.0        0          0          5
BMP-3            SOIL       18         0.4        0.2        0.1        5          5          1.5
BMP-3            STORAGE    12         0.67       0          0
BMP-3            DRAIN      0          0.5        6          6          0          0

[LID_USAGE]
;;Subcatchment   LID Process      Number  Area       Width      InitSat    FromImp    ToPerv
    RptFile                  DrainTo          FromPerv
;;-------------- ---------------- ------- ---------- ---------- ---------- ---------- ----------
    ------------------------ ---------------- ----------

[OUTFALLS]
;;Name           Elevation  Type       Stage Data       Gated    Route To
;;-------------- ---------- ---------- ---------------- -------- ----------------
POC-1            0          FREE                        NO

[CURVES]
;;Name           Type       X-Value    Y-Value
;;-------------- ---------- ---------- ----------
DETPIPE_1        Storage    0          2122
DETPIPE_1                   2          2122
DETPIPE_1                   2.01       0
DETPIPE_1                   5          0

[REPORT]
;;Reporting Options
SUBCATCHMENTS ALL
NODES ALL
LINKS ALL

[TAGS]

[MAP]
DIMENSIONS -2500.000 -1309.000 14150.000 8100.000
Units      None

[COORDINATES]
;;Node           X-Coord            Y-Coord
;;-------------- ------------------ ------------------
POC-1            3194.965           342.417

[VERTICES]
;;Link           X-Coord            Y-Coord
;;-------------- ------------------ ------------------

[Polygons]
;;Subcatchment   X-Coord            Y-Coord
;;-------------- ------------------ ------------------
DMA-A            6650.709           5418.996
```

```
DMA-B            7129.823           5123.372
DMA-C            7252.151           4797.166
DMA-D            5641.509           1922.477
DMA-E            6079.848           790.950
DMA-F            6701.678           933.665
DMA-G            7180.793           597.265
DMA-H            7526.439           6842.344

[SYMBOLS]
;;Gage            X-Coord            Y-Coord
;;--------------- ------------------ ------------------
Temecula_RG      2341.513           6983.640


[BACKDROP]
FILE       "V:\17\17053\engineering\TM\TM02\STORM\SWMM\17053 pre-dev swmm map-Model.jpg"
DIMENSIONS 2688.667 -1309.000 8961.333 8100.000

```

```
[TITLE]
;;Project Title/Notes
Post-Development
  Drawdown Time:  1 hours

[OPTIONS]
;;Option             Value
FLOW_UNITS           CFS
INFILTRATION         GREEN_AMPT
FLOW_ROUTING         KINWAVE
LINK_OFFSETS         DEPTH
MIN_SLOPE            0
ALLOW_PONDING        NO
SKIP_STEADY_STATE    NO

START_DATE           10/16/1971
START_TIME           04:00:00
REPORT_START_DATE    10/16/1971
REPORT_START_TIME    04:00:00
END_DATE             03/29/2006
END_TIME             08:00:00
SWEEP_START          01/01
SWEEP_END            12/31
DRY_DAYS             0
REPORT_STEP          01:00:00
WET_STEP             01:00:00
DRY_STEP             01:00:00
ROUTING_STEP         0:01:00
RULE_STEP            00:00:00

INERTIAL_DAMPING     PARTIAL
NORMAL_FLOW_LIMITED  BOTH
FORCE_MAIN_EQUATION  H-W
VARIABLE_STEP        0.75
LENGTHENING_STEP     0
MIN_SURFAREA         0
MAX_TRIALS           0
HEAD_TOLERANCE       0
SYS_FLOW_TOL         5
LAT_FLOW_TOL         5
MINIMUM_STEP         0.5
THREADS              1

[EVAPORATION]
;;Data Source    Parameters
;;-------------- ----------------
MONTHLY          0.060  0.080  0.110  0.16   0.18   0.21   0.21   0.20   0.16   0.12   0.08   0.06
DRY_ONLY         NO

[RAINGAGES]
;;Name           Format    Interval SCF      Source
;;-------------- --------- ------ ------ ----------
```

```
Temecula_RG      INTENSITY 1:00     1.0      FILE       "R:\Rain gage dat\048844 Temecula Rain data.dat" 048844
IN

[SUBCATCHMENTS]
;;Name           Rain Gage        Outlet           Area     %Imperv  Width    %Slope   CurbLen  SnowPack
;;-------------- ---------------- ---------------- -------- -------- -------- -------- -------- ----------------
BMP-1            Temecula_RG      POC-1            .1564    0        159      0.5      0
BMP-2            Temecula_RG      POC-1            0.11669  0        127      0.5      0
BMP-3            Temecula_RG      POC-1            .0091    0        32       0.5      0
DMA-A            Temecula_RG      BMP-1            3.9699   85       430.5    2.18     0
DMA-B            Temecula_RG      BMP-2            .7447    85       224      1.4      0
DMA-C            Temecula_RG      BMP-3            .1981    85       368      2.75     0
DMA-D            Temecula_RG      BMP-4            .7872    85       190      3.5      0
DMA-E            Temecula_RG      POC-1            .1938    85       209      2.5      0
DMA-F            Temecula_RG      POC-1            .1395    0        57       13       0
BMP-4            Temecula_RG      POC-1            .0277    0        35       0.5      0
BMP-5            Temecula_RG      POC-1            .0069    0        10       0.5      0
DMA-G            Temecula_RG      BMP-5            .2175    85       50       0.5      0
DMA-H            Temecula_RG      POC-1            .0979    0        150      0.5      0

[SUBAREAS]
;;Subcatchment   N-Imperv   N-Perv     S-Imperv   S-Perv     PctZero    RouteTo    PctRouted
;;-------------- ---------- ---------- ---------- ---------- ---------- ---------- ----------
BMP-1            0.012      0.1        0.05       0.1        25         OUTLET
BMP-2            0.012      0.1        0.05       0.1        25         OUTLET
BMP-3            0.012      0.1        0.05       0.1        25         OUTLET
DMA-A            0.012      0.1        0.05       0.1        25         OUTLET
DMA-B            0.012      0.1        0.05       0.1        25         OUTLET
DMA-C            0.012      0.1        0.05       0.1        25         OUTLET
DMA-D            0.012      0.1        0.05       0.1        25         OUTLET
DMA-E            0.012      0.1        0.05       0.1        25         OUTLET
DMA-F            0.012      0.1        0.05       0.1        25         OUTLET
BMP-4            0.012      0.1        0.05       0.1        25         OUTLET
BMP-5            0.012      0.1        0.05       0.1        25         OUTLET
DMA-G            0.012      0.1        0.05       0.1        25         OUTLET
DMA-H            0.012      0.1        0.05       0.1        25         OUTLET

[INFILTRATION]
;;Subcatchment   Suction    Ksat       IMD
;;-------------- ---------- ---------- ----------
BMP-1            9          0.01875    0.33
BMP-2            9          0.01875    0.33
BMP-3            9          0.01875    0.33
DMA-A            9          0.01875    0.33
DMA-B            9          0.01875    0.33
DMA-C            9          0.01875    0.33
DMA-D            9          0.01875    0.33
DMA-E            9          0.01875    0.33
DMA-F            9          0.01875    0.33
BMP-4            3.5        .5         .25
BMP-5            3.5        0.5        0.25
DMA-G            9          .01875     .33
```

```
DMA-H           9          .01875     .33

[LID_CONTROLS]
;;Name           Type/Layer Parameters
;;-------------- ---------- ----------
BMP-1           BC
BMP-1           SURFACE    6          0.05       0          0          5
BMP-1           SOIL       24         0.4        0.2        0.1        2.5        5          1.5
BMP-1           STORAGE    12         0.67       0          0
BMP-1           DRAIN      0.0445721189633922 0.5        3          6          0          0

BMP-2           BC
BMP-2           SURFACE    6          0.05       0          0          5
BMP-2           SOIL       18         0.4        0.2        0.1        2.5        5          1.5
BMP-2           STORAGE    12         0.67       0          0
BMP-2           DRAIN      0.0493297579700974 0.5        3          6          0          0

BMP-3           BC
BMP-3           SURFACE    6          0          0          0          5
BMP-3           SOIL       24         0.4        0.2        0.1        2.5        5          1.5
BMP-3           STORAGE    18         0.67       0          0
BMP-3           DRAIN      0.84251174045 0.5        6          6          0          0

BMP-4           BC
BMP-4           SURFACE    6          0.0        0.1        0          5
BMP-4           SOIL       24         0.4        0.2        0.1        2.5        5          1.5
BMP-4           STORAGE    18         .67        0          0
BMP-4           DRAIN      0.27571842376 0.5        3          6          0          0

BMP-5           BC
BMP-5           SURFACE    6.0        0.0        0.1        0          5
BMP-5           SOIL       24         0.4        0.2        0.1        2.5        5          1.5
BMP-5           STORAGE    18         .67        0          0
BMP-5           DRAIN      1.10196072013 0.5        3          6          0          0

[LID_USAGE]
;;Subcatchment   LID Process      Number  Area       Width      InitSat    FromImp    ToPerv
    RptFile                  DrainTo          FromPerv
;;-------------- ---------------- ------- ---------- ---------- ---------- ---------- ----------
    ------------------------ ---------------- ----------
BMP-1           BMP-1            1       6812.78    0          0          0          0
*                        *                0
BMP-2           BMP-2            1       5083.02    0          0          0          0
*                        *                0
BMP-3           BMP-3            1       396.40     0          0          0          0
*                        *                0
BMP-4           BMP-4            1       1206.61    0          0          0          0
*                        *                0
BMP-5           BMP-5            1       300.56     0          0          0          0
*                        *                0

[OUTFALLS]
```

```
;;Name           Elevation  Type       Stage Data       Gated    Route To
;;-------------- ---------- ---------- ---------------- -------- ----------------
POC-1            0          FREE                        NO

[CURVES]
;;Name           Type       X-Value    Y-Value
;;-------------- ---------- ---------- ----------
DETPIPE_1        Storage    0          2122
DETPIPE_1                   2          2122
DETPIPE_1                   2.01       0
DETPIPE_1                   5          0

[REPORT]
;;Reporting Options
SUBCATCHMENTS ALL
NODES ALL
LINKS ALL

[TAGS]

[MAP]
DIMENSIONS -2500.000 -1551.734 14150.000 8342.734
Units      None

[COORDINATES]
;;Node           X-Coord            Y-Coord
;;-------------- ------------------ ------------------
POC-1            3077.329           1611.034

[VERTICES]
;;Link           X-Coord            Y-Coord
;;-------------- ------------------ ------------------

[Polygons]
;;Subcatchment   X-Coord            Y-Coord
;;-------------- ------------------ ------------------
BMP-1            4305.547           2504.900
BMP-1            4311.556           2465.842
BMP-1            4047.162           2162.390
BMP-1            4056.176           2042.211
BMP-1            4020.122           2051.225
BMP-1            3818.822           2225.484
BMP-1            3773.755           2655.124
BMP-1            3791.782           2697.186
BMP-1            3836.849           2682.164
BMP-2            5342.090           7279.007
BMP-2            5260.969           7020.622
BMP-2            5288.010           6993.582
BMP-2            5552.403           6891.430
BMP-2            5633.524           6894.434
BMP-2            5642.537           6936.497
BMP-2            5702.627           7245.958
```

Appendix 8: Source Control

Pollutant Sources/Source Control Checklist

Include a copy of the completed Pollutant Sources/Source Control Checklist used to document Source Control BMPs in Section H of this Template.

Appendix 8

STORMWATER POLLUTANT SOURCES/SOURCE CONTROL CHECKLIST

How to use this worksheet (also see instructions in Section G of the 2014 SMR WQMP Template):

1. Review Column 1 and identify which of these potential sources of stormwater pollutants apply to your site. Check each box that applies.
2. Review Column 2 and incorporate all of the corresponding applicable BMPs in your WQMP Exhibit.
3. Review Columns 3 and 4 and incorporate all of the corresponding applicable permanent controls and operational BMPs in your WQMP. Use the format shown in Table G.1on page 31 of this WQMP Template. Describe your specific BMPs in an accompanying narrative, and explain any special conditions or situations that required omitting BMPs or substituting alternative BMPs for those shown here.

IF THESE SOURCES WILL BE ON THE PROJECT SITE ...	... THEN YOUR WQMP SHOULD INCLUDE THESE SOURCE CONTROL BMPs, AS APPLICABLE		
1 Potential Sources of Runoff Pollutants	2 Permanent Controls—Show on WQMP Drawings	3 Permanent Controls—List in WQMP Table and Narrative	4 Operational BMPs—Include in WQMP Table and Narrative
☒ A. **On-site storm drain inlets**	☒ **Locations of inlets.**	☒ **Mark all inlets with the words "Only Rain Down the Storm Drain" or similar. Catch Basin Markers may be available from the Riverside County Flood Control and Water Conservation District, call 951.955.1200 to verify.**	☒ **Maintain and periodically repaint or replace inlet markings.** ☒ **Provide stormwater pollution prevention information to new site owners, lessees, or operators.** ☒ **See applicable operational BMPs in Fact Sheet SC-44, "Drainage System Maintenance," in the CASQA Stormwater Quality Handbooks at www.cabmphandbooks.com** ☒ **Include the following in lease agreements: "Tenant shall not allow anyone to discharge anything to storm drains or to store or deposit materials so as to create a potential discharge to storm drains."**
☐ B. **Interior floor drains and elevator shaft sump pumps**		☐ **State that interior floor drains and elevator shaft sump pumps will be plumbed to sanitary sewer.**	☐ **Inspect and maintain drains to prevent blockages and overflow.**
☐ C. **Interior parking garages**		☐ **State that parking garage floor drains will be plumbed to the sanitary sewer.**	☐ **Inspect and maintain drains to prevent blockages and overflow.**

IF THESE SOURCES WILL BE ON THE PROJECT SITE ...	... THEN YOUR WQMP SHOULD INCLUDE THESE SOURCE CONTROL BMPs, AS APPLICABLE		
1 Potential Sources of Runoff Pollutants	2 Permanent Controls—Show on WQMP Drawings	3 Permanent Controls—List in WQMP Table and Narrative	4 Operational BMPs—Include in WQMP Table and Narrative
❑ D1. **Need for future indoor & structural pest control**		❑ **Note building design features that discourage entry of pests.**	❑ **Provide Integrated Pest Management information to owners, lessees, and operators.**
☒ D2. **Landscape/ Outdoor Pesticide Use**	❑ **Show locations of native trees or areas of shrubs and ground cover to be undisturbed and retained.** ❑ **Show self-retaining landscape areas, if any.** ☒ **Show stormwater treatment and hydrograph modification management BMPs. (See instructions in Chapter 3, Step 5 and guidance in Chapter 5.)**	**State that final landscape plans will accomplish all of the following.** ☒ **Preserve existing native trees, shrubs, and ground cover to the maximum extent possible.** ☒ **Design landscaping to minimize irrigation and runoff, to promote surface infiltration where appropriate, and to minimize the use of fertilizers and pesticides that can contribute to stormwater pollution.** ☒ **Where landscaped areas are used to retain or detain stormwater, specify plants that are tolerant of saturated soil conditions.** ☒ **Consider using pest-resistant plants, especially adjacent to hardscape. To insure successful establishment, select plants appropriate to site soils, slopes, climate, sun, wind, rain, land use, air movement, ecological consistency, and plant interactions.**	☒ **Maintain landscaping using minimum or no pesticides.** ❑ **See applicable operational BMPs in "What you should know for…..Landscape and Gardening"** at http://www.rcflood.org/stormwater/Downloads/LandscapeGardenBrochure.pdf ☒ **Provide IPM information to new owners, lessees and operators.**

IF THESE SOURCES WILL BE ON THE PROJECT SITE ...	... THEN YOUR WQMP SHOULD INCLUDE THESE SOURCE CONTROL BMPs, AS APPLICABLE		
1 Potential Sources of Runoff Pollutants	2 Permanent Controls—Show on WQMP Drawings	3 Permanent Controls—List in WQMP Table and Narrative	4 Operational BMPs—Include in WQMP Table and Narrative
❑ E. **Pools, spas, ponds, decorative fountains, and other water features.**	❑ **Show location of water feature and a sanitary sewer cleanout in an accessible area within 10 feet. (Exception: Public pools must be plumbed according to County Department of Environmental Health Guidelines.)**	**If the Co-Permittee requires pools to be plumbed to the sanitary sewer, place a note on the plans and state in the narrative that this connection will be made according to local requirements.**	❑ **See applicable operational BMPs in "Guidelines for Maintaining Your Swimming Pool, Jacuzzi and Garden Fountain" at http://www.rcflood.org/stormwater/Downloads/poolsandspas.pdf**
☒ F. **Food service**	☒ **For restaurants, grocery stores, and other food service operations, show location (indoors or in a covered area outdoors) of a floor sink or other area for cleaning floor mats, containers, and equipment.** ☒ **On the drawing, show a note that this drain will be connected to a grease interceptor before discharging to the sanitary sewer.**	❑ **Describe the location and features of the designated cleaning area.** ❑ **Describe the items to be cleaned in this facility and how it has been sized to insure that the largest items can be accommodated.**	☒ **See the brochure, "The Food Service Industry Best Management Practices for: Restaurants, Grocery Stores, Delicatessens and Bakeries" at http://www.rcflood.org/stormwater/downloads/FoodServ.pdf** **Provide this brochure to new site owners, lessees, and operators.**
☒ G. **Refuse areas**	☒ **Show where site refuse and recycled materials will be handled and stored for pickup. See local municipal requirements for sizes and other details of refuse areas.** ☒ **If dumpsters or other receptacles are outdoors, show how the designated area will be covered, graded, and paved to prevent run-on and show locations of berms to prevent runoff from the area.** ❑ **Any drains from dumpsters, compactors, and tallow bin areas shall be connected to a grease removal device before discharge to sanitary sewer.**	☒ **State how site refuse will be handled and provide supporting detail to what is shown on plans.** ☒ **State that signs will be posted on or near dumpsters with the words "Do not dump hazardous materials here" or similar.**	☒ **State how the following will be implemented:** **Provide adequate number of receptacles. Inspect receptacles regularly; repair or replace leaky receptacles. Keep receptacles covered. Prohibit/prevent dumping of liquid or hazardous wastes. Post "no hazardous materials" signs. Inspect and pick up litter daily and clean up spills immediately. Keep spill control materials available on-site. See Fact Sheet SC-34, "Waste Handling and Disposal" in the CASQA Stormwater Quality Handbooks at www.cabmphandbooks.com**

IF THESE SOURCES WILL BE ON THE PROJECT SITE ...	... THEN YOUR WQMP SHOULD INCLUDE THESE SOURCE CONTROL BMPs, AS APPLICABLE		
1 Potential Sources of Runoff Pollutants	2 Permanent Controls—Show on WQMP Drawings	3 Permanent Controls—List in WQMP Table and Narrative	4 Operational BMPs—Include in WQMP Table and Narrative
❑ H. **Industrial processes.**	❑ **Show process area.**	❑ **If industrial processes are to be located on site, state: "All process activities to be performed indoors. No processes to drain to exterior or to storm drain system."**	❑ **See Fact Sheet SC-10, "Non-Stormwater Discharges" in the CASQA Stormwater Quality Handbooks at www.cabmphandbooks.com** See the brochure "Industrial & Commercial Facilities Best Management Practices for: Industrial, Commercial Facilities" at http://www.rcflood.org/stormwater/Downloads/IndustrialCommercialFacilities.pdf
❑ I. **Outdoor storage of equipment or materials. (See rows J and K for source control measures for vehicle cleaning, repair, and maintenance.)**	❑ **Show any outdoor storage areas, including how materials will be covered. Show how areas will be graded and bermed to prevent run-on or run-off from area.** ❑ **Storage of non-hazardous liquids shall be covered by a roof and/or drain to the sanitary sewer system, and be contained by berms, dikes, liners, or vaults.** ❑ **Storage of hazardous materials and wastes must be in compliance with the local hazardous materials ordinance and a Hazardous Materials Management Plan for the site.**	❑ **Include a detailed description of materials to be stored, storage areas, and structural features to prevent pollutants from entering storm drains.** **Where appropriate, reference documentation of compliance with the requirements of Hazardous Materials Programs for:** ▪ **Hazardous Waste Generation** ▪ **Hazardous Materials Release Response and Inventory** ▪ **California Accidental Release (CalARP)** ▪ **Aboveground Storage Tank** ▪ **Uniform Fire Code Article 80 Section 103(b) & (c) 1991** ▪ **Underground Storage Tank** www.cchealth.org/groups/hazmat/	❑ **See the Fact Sheets SC-31, "Outdoor Liquid Container Storage" and SC-33, "Outdoor Storage of Raw Materials " in the CASQA Stormwater Quality Handbooks at www.cabmphandbooks.com**

IF THESE SOURCES WILL BE ON THE PROJECT SITE ...	... THEN YOUR WQMP SHOULD INCLUDE THESE SOURCE CONTROL BMPs, AS APPLICABLE		
1 Potential Sources of Runoff Pollutants	2 Permanent Controls—Show on WQMP Drawings	3 Permanent Controls—List in WQMP Table and Narrative	4 Operational BMPs—Include in WQMP Table and Narrative
❑ J. **Vehicle and Equipment Cleaning**	❑ **Show on drawings as appropriate:** **(1) Commercial/industrial facilities having vehicle/equipment cleaning needs shall either provide a covered, bermed area for washing activities or discourage vehicle/equipment washing by removing hose bibs and installing signs prohibiting such uses.** **(2) Multi-dwelling complexes shall have a paved, bermed, and covered car wash area (unless car washing is prohibited on-site and hoses are provided with an automatic shut-off to discourage such use).** **(3) Washing areas for cars, vehicles, and equipment shall be paved, designed to prevent run-on to or runoff from the area, and plumbed to drain to the sanitary sewer.** **(4) Commercial car wash facilities shall be designed such that no runoff from the facility is discharged to the storm drain system. Wastewater from the facility shall discharge to the sanitary sewer, or a wastewater reclamation system shall be installed.**	❑ **If a car wash area is not provided, describe any measures taken to discourage on-site car washing and explain how these will be enforced.**	**Describe operational measures to implement the following (if applicable):** ❑ **Washwater from vehicle and equipment washing operations shall not be discharged to the storm drain system. Refer to "Outdoor Cleaning Activities and Professional Mobile Service Providers" for many of the Potential Sources of Runoff Pollutants categories below. Brochure can be found at http://www.rcflood.org/stormwater/downloads/OutdoorCleaningActivities.pdf** ❑ **Car dealerships and similar may rinse cars with water only.**

IF THESE SOURCES WILL BE ON THE PROJECT SITE ...	... THEN YOUR WQMP SHOULD INCLUDE THESE SOURCE CONTROL BMPs, AS APPLICABLE		
1 Potential Sources of Runoff Pollutants	2 Permanent Controls—Show on WQMP Drawings	3 Permanent Controls—List in WQMP Table and Narrative	4 Operational BMPs—Include in WQMP Table and Narrative
❑ K. **Vehicle/Equipment Repair and Maintenance**	❑ **Accommodate all vehicle equipment repair and maintenance indoors. Or designate an outdoor work area and design the area to prevent run-on and runoff of stormwater.** ❑ **Show secondary containment for exterior work areas where motor oil, brake fluid, gasoline, diesel fuel, radiator fluid, acid-containing batteries or other hazardous materials or hazardous wastes are used or stored. Drains shall not be installed within the secondary containment areas.** ❑ **Add a note on the plans that states either (1) there are no floor drains, or (2) floor drains are connected to wastewater pretreatment systems prior to discharge to the sanitary sewer and an industrial waste discharge permit will be obtained.**	❑ **State that no vehicle repair or maintenance will be done outdoors, or else describe the required features of the outdoor work area.** ❑ **State that there are no floor drains or if there are floor drains, note the agency from which an industrial waste discharge permit will be obtained and that the design meets that agency's requirements.** ❑ **State that there are no tanks, containers or sinks to be used for parts cleaning or rinsing or, if there are, note the agency from which an industrial waste discharge permit will be obtained and that the design meets that agency's requirements.**	**In the Stormwater Control Plan, note that all of the following restrictions apply to use the site:** ❑ **No person shall dispose of, nor permit the disposal, directly or indirectly of vehicle fluids, hazardous materials, or rinsewater from parts cleaning into storm drains.** ❑ **No vehicle fluid removal shall be performed outside a building, nor on asphalt or ground surfaces, whether inside or outside a building, except in such a manner as to ensure that any spilled fluid will be in an area of secondary containment. Leaking vehicle fluids shall be contained or drained from the vehicle immediately.** ❑ **No person shall leave unattended drip parts or other open containers containing vehicle fluid, unless such containers are in use or in an area of secondary containment.** **Refer to "Automotive Maintenance & Car Care Best Management Practices for Auto Body Shops, Auto Repair Shops, Car Dealerships, Gas Stations and Fleet Service Operations". Brochure can be found at** http://rcflood.org/stormwater/ **Refer to Outdoor Cleaning Activities and Professional Mobile Service Providers for many of the Potential Sources of Runoff Pollutants categories below. Brochure can be found at** http://rcflood.org/stormwater/

IF THESE SOURCES WILL BE ON THE PROJECT SITE …	… THEN YOUR WQMP SHOULD INCLUDE THESE SOURCE CONTROL BMPs, AS APPLICABLE		
1 Potential Sources of Runoff Pollutants	2 Permanent Controls—Show on WQMP Drawings	3 Permanent Controls—List in WQMP Table and Narrative	4 Operational BMPs—Include in WQMP Table and Narrative
❑ L. **Fuel Dispensing Areas**	❑ **Fueling areas[6] shall have impermeable floors (i.e., portland cement concrete or equivalent smooth impervious surface) that are: a) graded at the minimum slope necessary to prevent ponding; and b) separated from the rest of the site by a grade break that prevents run-on of stormwater to the maximum extent practicable.** ❑ **Fueling areas shall be covered by a canopy that extends a minimum of ten feet in each direction from each pump. [Alternative: The fueling area must be covered and the cover's minimum dimensions must be equal to or greater than the area within the grade break or fuel dispensing area[1].] The canopy [or cover] shall not drain onto the fueling area.**		❑ **The property owner shall dry sweep the fueling area routinely.** ❑ **See the Fact Sheet SD-30 , "Fueling Areas" in the CASQA Stormwater Quality Handbooks at www.cabmphandbooks.com**

[6] **The fueling area shall be defined as the area extending a minimum of 6.5 feet from the corner of each fuel dispenser or the length at which the hose and nozzle assembly may be operated plus a minimum of one foot, whichever is greater.**

IF THESE SOURCES WILL BE ON THE PROJECT SITE ...	... THEN YOUR WQMP SHOULD INCLUDE THESE SOURCE CONTROL BMPs, AS APPLICABLE		
1 Potential Sources of Runoff Pollutants	2 Permanent Controls—Show on WQMP Drawings	3 Permanent Controls—List in WQMP Table and Narrative	4 Operational BMPs—Include in WQMP Table and Narrative
❑ M. **Loading Docks**	❑ **Show a preliminary design for the loading dock area, including roofing and drainage. Loading docks shall be covered and/or graded to minimize run-on to and runoff from the loading area. Roof downspouts shall be positioned to direct stormwater away from the loading area. Water from loading dock areas shall be drained to the sanitary sewer, or diverted and collected for ultimate discharge to the sanitary sewer.** ❑ **Loading dock areas draining directly to the sanitary sewer shall be equipped with a spill control valve or equivalent device, which shall be kept closed during periods of operation.** ❑ **Provide a roof overhang over the loading area or install door skirts (cowling) at each bay that enclose the end of the trailer.**		❑ **Move loaded and unloaded items indoors as soon as possible.** ❑ **See Fact Sheet SC-30, "Outdoor Loading and Unloading," in the CASQA Stormwater Quality Handbooks at www.cabmphandbooks.com**

IF THESE SOURCES WILL BE ON THE PROJECT SITE ...	... THEN YOUR WQMP SHOULD INCLUDE THESE SOURCE CONTROL BMPs, AS APPLICABLE		
1 Potential Sources of Runoff Pollutants	2 Permanent Controls—Show on WQMP Drawings	3 Permanent Controls—List in WQMP Table and Narrative	4 Operational BMPs—Include in WQMP Table and Narrative
❑ N. **Fire Sprinkler Test Water**		❑ **Provide a means to drain fire sprinkler test water to the sanitary sewer.**	❑ **See the note in Fact Sheet SC-41, "Building and Grounds Maintenance," in the CASQA Stormwater Quality Handbooks at www.cabmphandbooks.com**
O. **Miscellaneous Drain or Wash Water or Other Sources** ❑ **Boiler drain lines** ❑ **Condensate drain lines** ❑ **Rooftop equipment** ❑ **Drainage sumps** ☒ **Roofing, gutters, and trim.** ❑ **Other sources**		❑ **Boiler drain lines shall be directly or indirectly connected to the sanitary sewer system and may not discharge to the storm drain system.** ❑ **Condensate drain lines may discharge to landscaped areas if the flow is small enough that runoff will not occur. Condensate drain lines may not discharge to the storm drain system.** ❑ **Rooftop equipment with potential to produce pollutants shall be roofed and/or have secondary containment.** ❑ **Any drainage sumps on-site shall feature a sediment sump to reduce the quantity of sediment in pumped water.** ☒ **Avoid roofing, gutters, and trim made of copper or other unprotected metals that may leach into runoff.** ❑ **Include controls for other sources as specified by local reviewer.**	

IF THESE SOURCES WILL BE ON THE PROJECT SITE ...	... THEN YOUR WQMP SHOULD INCLUDE THESE SOURCE CONTROL BMPs, AS APPLICABLE		
1 Potential Sources of Runoff Pollutants	2 Permanent Controls—Show on WQMP Drawings	3 Permanent Controls—List in WQMP Table and Narrative	4 Operational BMPs—Include in WQMP Table and Narrative
☒ P. **Plazas, sidewalks, and parking lots.**			☒ **Sweep plazas, sidewalks, and parking lots regularly to prevent accumulation of litter and debris. Collect debris from pressure washing to prevent entry into the storm drain system. Collect washwater containing any cleaning agent or degreaser and discharge to the sanitary sewer not to a storm drain.**

Appendix 9: O&M

Operation and Maintenance Plan and Documentation of Finance, Maintenance and Recording Mechanisms

Include the completed Operation and Maintenance Plan in this Appendix along with additional documentation of Finance and Maintenance Recording Mechanisms for the site. Refer to Sections 3.10 and 5 of the SMR WQMP and Section J of this Template.

1. INSPECTION AND MAINTENANCE CHECKLIST

BMP Name:_____ Location:_____

Date of Inspection: _____ Time: _____AM/PM (circle)

Inspected by: _____ _____

Print Name Print Name

Signature: _____ _____

The designated Site Inspector shall use the following guidelines, Section VI of the WQMP and sheets in Appendix D for maintenance, inspection, and repair of BMPs identified in the WQMP. Include any comments in the box to the right, including reparations made or needed. If preparations are needed, please provide a follow up date. The completed checklist shall be filed in order to keep a record of what was inspected and maintained.

Best Management Practices	Inspection Frequency	Maintenance Frequency	Observations/Comments
Educate Operators, Tenants, Contractors or Employees	Annually in September (before rainy season)	N/A	_____ _____ _____
Activity Restrictions	Annually in September (before rainy season)	N/A	_____ _____ _____
Irrigation System and Landscape Maintenance	Monthly	As-needed based on Maintenance Indicators	_____ _____ _____
Common Area Litter Control	N/A	Routine Litter pick-up	_____ _____ _____
Street Sweeping of Parking	N/A	Bi-monthly (coordinate with the city street sweeping)	_____ _____ _____ _____
Drainage Facility Inspection and Maintenance	Before and after the rainy season	As-needed based on Maintenance Indicators	_____ _____ _____
Protect slopes and Channels	Annually in September (before rainy season)	As-needed planting of vegetation in eroded	_____ _____ _____ _____ _____ _____ _____

Trash Storage Areas	Weekly as-needed	N/A	_____ _____ _____ _____ _____
Media Filter/inlet inserts	Semi-annually (before and after rainy season) and after major storms	Clean four times a year, Debris removal as necessary, and prior to and following rainy season and major storm	_____ _____ _____ _____ _____ _____ _____

Notes:

1. Do not blow lawn clippings or any waste into the Porous Landscape Detention Basin
2. Completed copies must be kept onsite to provide prove that the WQMP is being maintained and operated and must be available to the City and Regional Board upon request.
3. Runoff to the street caused by irrigation is prohibited and may result in monetary penalties. Adjust station timing and times per day as weather changes.
4. Keep lids closed.

Bioretention

Date:	Inspector:	BMP ID No.:
Permit No.:	APN(s):	
Property / Development Name:	Responsible Party Name and Phone Number:	
Property Address of BMP:	Responsible Party Address:	

INSPECTION AND MAINTENANCE CHECKLIST FOR BIORETENTION PAGE 1 of 5			
Threshold/Indicator	**Maintenance Recommendation**	**Date**	**Description of Maintenance Conducted**
Accumulation of sediment, litter, or debris Maintenance Needed? ☐ YES ☐ NO ☐ N/A	☐ Remove and properly dispose of accumulated materials, without damage to the vegetation ☐ If sediment, litter, or debris accumulation exceeds 25% of the surface ponding volume within one month (25% full*), add a forebay or other pre-treatment measures within the tributary area draining to the BMP to intercept the materials. ☐ Other / Comments:		
Poor vegetation establishment Maintenance Needed? ☐ YES ☐ NO ☐ N/A	☐ Re-seed, re-plant, or re-establish vegetation per original plans ☐ Other / Comments:		

*"25% full" is defined as ¼ of the depth from the design bottom elevation to the crest of the outflow structure (e.g., if the height to the outflow opening is 12 inches from the bottom elevation, then the materials must be removed when there is 3 inches of accumulation – this should be marked on the outflow structure).

Bioretention

Date:	Inspector:	BMP ID No.:
Permit No.:	APN(s):	

INSPECTION AND MAINTENANCE CHECKLIST FOR BIORETENTION PAGE 2 of 5			
Threshold/Indicator	**Maintenance Recommendation**	**Date**	**Description of Maintenance Conducted**
Dead or diseased vegetation Maintenance Needed? ☐ YES ☐ NO ☐ N/A	☐ Remove dead or diseased vegetation, re-seed, re-plant, or re-establish vegetation per original plans ☐ Other / Comments:		
Overgrown vegetation Maintenance Needed? ☐ YES ☐ NO ☐ N/A	☐ Mow or trim as appropriate ☐ Other / Comments:		
2/3 of mulch has decomposed, or mulch has been removed Maintenance Needed? ☐ YES ☐ NO ☐ N/A	☐ Remove decomposed fraction and top off with fresh mulch to a total depth of 3 inches ☐ Other / Comments:		

Bioretention

Date:	Inspector:	BMP ID No.:
Permit No.:	APN(s):	

INSPECTION AND MAINTENANCE CHECKLIST FOR BIORETENTION PAGE 3 of 5			
Threshold/Indicator	**Maintenance Recommendation**	**Date**	**Description of Maintenance Conducted**
Erosion due to concentrated irrigation flow Maintenance Needed? ☐ YES ☐ NO ☐ N/A	☐ Repair/re-seed/re-plant eroded areas and adjust the irrigation system ☐ Other / Comments:		
Erosion due to concentrated storm water runoff flow Maintenance Needed? ☐ YES ☐ NO ☐ N/A	☐ Repair/re-seed/re-plant eroded areas, and make appropriate corrective measures such as adding erosion control blankets, adding stone at flow entry points, or minor re-grading to restore proper drainage according to the original plan ☐ If the issue is not corrected by restoring the BMP to the original plan and grade, the [City Engineer] shall be contacted prior to any additional repairs or reconstruction ☐ Other / Comments:		

Bioretention

Date:	Inspector:	BMP ID No.:
Permit No.:	APN(s):	

INSPECTION AND MAINTENANCE CHECKLIST FOR BIORETENTION PAGE 4 of 5			
Threshold/Indicator	**Maintenance Recommendation**	**Date**	**Description of Maintenance Conducted**
Obstructed inlet or outlet structure Maintenance Needed? ☐ YES ☐ NO ☐ N/A	☐ Clear blockage ☐ Other / Comments:		
Underdrain clogged (inspect underdrain if standing water is observed for longer than 24-96 hours following a storm event) Maintenance Needed? ☐ YES ☐ NO ☐ N/A	☐ Clear blockage ☐ Other / Comments:		
Damage to structural components such as weirs, inlet or outlet structures Maintenance Needed? ☐ YES ☐ NO ☐ N/A	☐ Repair or replace as applicable ☐ Other / Comments:		

Detention Pipe

Date:	Inspector:	BMP ID No.:
Permit No.:	APN(s):	

INSPECTION AND MAINTENANCE CHECKLIST FOR DETENTION PIPE PAGE 1 of 1			
Threshold/Indicator	**Maintenance Recommendation**	**Date**	**Description of Maintenance Conducted**
Standing water in BMP for longer than 24-96 hours following a storm event* Draining time in the detention pipe longer than 96 hours following a storm event may be growth for mosquito breeding. Maintenance Needed? ☐ YES ☐ NO ☐ N/A	☐ Make appropriate corrective measures such as checking the flow control orifices and weir inside the manholes. clearing underdrains, or repairing/ replacing clogged orifices. ☐ Other / Comments:		
Underdrain clogged (inspect underdrain if standing water is observed for longer than 24-96 hours following a storm event) Maintenance Needed? ☐ YES ☐ NO ☐ N/A	☐ Clear blockage ☐ Other / Comments:		

*Surface ponding longer than approximately 24 hours following a storm event may be detrimental to vegetation health, and surface ponding longer than approximately 96 hours following a storm event poses a risk of vector (mosquito) breeding. Poor drainage can result from clogging of the media layer, filter course, aggregate storage layer, underdrain, or outlet structure. The specific cause of the drainage issue must be determined and corrected.

**If mosquitos persist following corrective measures to remove standing water, or if the BMP design does not meet the 96-hour drawdown criteria due to release rates controlled by an orifice installed on the underdrain, the [City Engineer] shall be contacted to determine a solution. A different BMP type, or a Vector Management Plan prepared with concurrence from the County of San Diego Department of Environmental Health, may be required.

2. INTRODUCTION

The project proposes to create 16 separate legal parcels with 13 buildings, occupied with varying shops such as specialty stores, fast food, casual dining, gas stations, a convenience store, and a hotel. There will be 19 users in total. At 100 percent buildout, the site will be more than 80 percent impervious. All impervious areas will drain to water quality basins, then to detention pipes onsite, then into a storm drain system, and finally draining to the existing drainage ditch along the east side of the project.

3. RESPONSIBILITY FOR MAINTENANCE

A. General

It shall be the responsibility of the owner to train all employees for the maintenance and operation of all BMPs, to achieve the maximum pollutant reduction, as addressed in the approved Project's WQMP. The following schedule of (O&M's) must be followed to satisfy the Conditions of Concern and the Pollutants of Concern as addressed in the approved Project's SWQMP and the City's SUSMP. This schedule shall include periodic inspections of all Source Control and Treatment Control BMP's. All maintenance records for training, inspection and maintenance shall be retained and provided to the city upon request.

All BMPs shall be inspected 30 days prior to October lst each year and certified to the City Engineering Department as to their readiness to receive runoff from the annual rainfall season.

The owner will also provide to the City, as part of the maintenance and operation agreement, an executed maintenance and access easement that shall be binding on the land throughout the life of the project. The DMA Exhibit in Attachment A of this report shall serve as a map showing the locations of BMPs to be maintained.

Responsible Party for O&M and For Training- Property Owner

Curci, LLC, A California Limited Partnership
Contact: Allan Davis
27890 Clinton Keith Road D-490
Murrieta, Ca 92562
Phone: (760)518-0660

B. Training

Training of Operation and Maintenance personnel is of primary importance to provide knowledge of the operation and maintenance of BMPs. Proper training shall provide information that will enable employees to have in place an effective preventive maintenance program as described in this O & M manual. The responsible party mentioned above should take the course provided by the "BULDING INDUSTRIES ASSOCIATION of San Diego COUNTY" to be trained in the purpose and use of BMPs and the maintenance thereof. Proper preventive maintenance will prevent environmental incidents that may be a health and safety hazard.

New employees should be trained as to the purpose and proper maintenance within the first week of their employment. Employee training shall include receiving a copy of this O & M manual; a discussion on the location and purpose of site specific BMPs, such as Source Control and Treatment Control BMPs; training on how to inspect and report maintenance problems and to whom they report to. Employees shall be trained in site specific Pollutants of Concern so that they can evaluate the functioning of all on-site BMPs. These Pollutants are identified in section F of the WQMP Report.

A log of all training and reported inspections and maintenance problems along with what was done to correct the problem shall be kept on the premises at all times.

Employees shall be periodically trained, at a minimum of once a year, to refresh their abilities to operate and maintain all on-site BMPs.

C. Records

BMP TRAINING LOG			
Date Mo/Day/Yr	**Type of Training**	**Personnel Trained**	**Trainer**

4. Summary of DMA's and BMP's

The project specific DMA & Source Control Exhibit is located in Attachment A of this report. This exhibit shows the location and type of each DMA and BMP on site

5. BMP Design Documentation

The As-built plans can be found in Attachement B of this report. The plans will specify elevations and details of all Structural BMP's onsite. All field changes will be documented on the As-built plans and will be included in this report for reference.

6. Maintenance Guidelines & Schedule

The following section will detail out project specific maintenance procedures.

Inspection Frequency

The facility will be inspected and inspection visits will be completely documented:

- Once a month at a minimum.
- After every large storm (after every storm monitored or these storms with more than 0.50 inch of precipitation.)
- On a weekly basis during extended periods of wet weather.

Inspect for proper irrigation and fertilizer use, and ensure that all landscaped areas have minimum of 80% coverage.

Aesthetic Maintenance

The following activities will be included in the aesthetic maintenance program:

Grass Trimming: Trimming of grass will be done on all landscaped areas, around fences, at the inlet and outlet structures, and sampling structures.
Weed Control. Weeds will be removed through mechanical means. Herbicide will not be used because these chemicals may impact the water quality monitoring.

Functional Maintenance

Functional maintenance has two components:

- Preventive maintenance
- Corrective maintenance

Preventive Maintenance

Preventive maintenance activities to be instituted for landscaped areas are:

- Grass Mowing: Vegetation seed, mix within the landscaped areas, are to be designed to be kept short to maintain adequate hydraulic functioning and to limit the development of faunal habitats.

- Trash and Debris: During each inspection and maintenance visit to the site, debris and trash removal will be conducted to reduce the potential for inlet and outlet structures and other components from becoming clogged and inoperable during storm events.
- Sediment Removal: Sediment accumulation, as part of the operation and maintenance program at of landscaped areas, will be monitored once a month during the dry season, after every large storm (0.50 inch), and monthly during the wet season. Specifically, if sediment reaches a level at or near plant height, or could interfere with flow or operation, the sediment shall be removed. If accumulation of debris or sediment is determined to be the cause of decline in design performance, prompt action (i.e., within ten working days) will be taken to restore the landscaped areas to design performance standards. Actions will include using additional vegetation and/or removing accumulated sediment to correct channeling or ponding. Characterization and Appropriate disposal of sediment will comply with applicable local, county, state, or federal requirements.
- Landscaped areas will be re-graded, if the flow gradient has been altered. This should be a sign that the BMP is failing and the soil matrix may need to be replaced.
- Removal of Standing Water: Standing water must be removed if it contributes to the development of aquatic plant communities or mosquito breeding areas.
- Fertilization and Irrigation: fertilization and irrigation is to be keep at a minimum.
- Elimination of Mosquito Breeding Habitats. The most effective mosquito control program is one that eliminates standing water over a period less than 96 hours.

Corrective Maintenance

Corrective maintenance is required on an emergency or non-routine basis to correct problems and to restore the intended operation and safe function of all landscaped areas.

Corrective maintenance activities include:

- Removal of Debris and Sediment: Sediment, debris, and trash, which impede the hydraulic functioning of landscaping and prevent vegetative growth, will be removed and properly disposed. Temporary arrangements will be made for handling the sediments until a permanent arrangement is made. Vegetation will be re-established after sediment removal.
- Structural Repairs: Once deemed necessary, repairs to structural components of landscaping will be done within l0 working days. Qualified individuals (i.e., the designers or contractors) will conduct repairs where structural damage has occurred.
- Embankment and Slope Repairs: Once deemed necessary, damage to the embankments and slopes of landscaped areas will be repaired within l0 working days.
- Erosion Repair: Where a reseeding program has been ineffective, or where other factors have created erosive conditions (i.e., pedestrian traffic, concentrated flow, etc.), corrective steps will be taken to prevent loss of soil and any subsequent danger to the performance and use of landscaped areas as BMPs. There are a number of corrective actions than can be taken.
- These include erosion control blankets, riprap, or reducing flow velocity.
- Consult with an engineer and contractor to address frequently occurring erosion problems.
- Elimination of Animal Burrows: animal burrows will be filled and steps taken to remove the animals if burrowing problems continue to occur (filling and compacting). If the problem persists, vector control specialists will be consulted regarding removal steps. This consulting is necessary as the threat of rabies in some areas may necessitate the animals being destroyed rather than relocated. If the BMP performance is affected, abatement will begin. Otherwise, abatement will be performed annually in September.
- General Facility Maintenance: In addition to the above elements of corrective maintenance,

general corrective maintenance will address the overall facility and its associated components. If corrective maintenance is being done to one component, other components will be inspected to see if maintenance is needed.

Maintenance Frequency

The maintenance indicators for selected BMPs are included on page 10 of this report.

Debris and Sediment Disposal

Waste generated onsite is ultimately the responsibility of the Owner. Disposal of sediments, debris, and trash will comply with applicable local, county, state, and federal waste control programs.

Hazardous Waste

Suspected hazardous wastes will be analyzed to determine disposal options. Hazardous wastes generated onsite will be handled and disposed of according to applicable local, state, and federal regulations. A solid or liquid waste is considered a hazardous waste if it exceeds the criteria listed in the CCR, Title 22, Article 1l.

a. Landscaping

Operational and maintenance needs include:

- Vegetation management to maintain adequate hydraulic functioning and to limit habitat for disease-carrying animals.
- Animal and vector control.
- Periodic sediment removal to optimize performance.
- Trash, debris, grass trimmings, tree pruning, dead vegetation collection and removal.
- Removal of standing water, which may contribute to the development of aquatic plant communities or mosquito breeding areas.
- Erosion and structural maintenance to prevent the loss of soil and maintain the performance of all landscaping.

b. **Irrigation System**

Inspection Frequency and Procedure

The Irrigation system shall be checked each week as a minimum. The following items shall be checked to insure that they are functioning properly:

- Shut-off devices.
- All piping and sprinkler heads to insure there are no leaks and that proper water spread is maintained.
- All flow reducers.
- Check for overspray/runoff

c. **Roof Drains**

All roof drains shall be inspected 30 days prior to October lst of each year to insure that they are clean

and free from trash and in good repair. They shall be flushed and any leaks or damages piping shall be either replaced or repaired. Where roof drains flow onto grass areas splash structures and or rock rip-rap shall be maintained so the flow from the roof drains do not cause erosion or damage to the grass area. During the rain season roof drains shall be inspected weekly and after each rain storm to insure that there is no trash and or silt build up that will restrict the run-off flow from the roof. All trash and/or silt build up shall be removed immediately.

d. **Trash Storage Areas**

- All trash storage areas shall be inspected daily to insure that they are clean from trash. Also the following shall be inspected annually 30 days prior to October lst of each year.
- Pavement is in good repair.
- Drainage will not run-off onto adjacent areas.
- That they remain screened or walled to prevent off-site transport of trash.
- That all lids are closed and/or awnings are in good repair to minimize direct recipitation.

e. **Storm Water Conveyance System Stenciling and Signing**

- Signage/stenciling are to be inspected for legibility and visual obstruction and shall be Repaired and cleared of any obstruction within 5 working day of inspection.
- Inspection Frequency: Semi-annually, 30 days prior to October lst each year, and monthly during rainy season.

f. **Bioretention**

Operational and maintenance needs include:

- Vegetation management to maintain adequate hydraulic functioning and to limit habitat for disease-carrying animals.
- Animal and vector control.
- Periodic sediment removal to optimize performance.
- Trash, debris, grass trimmings, tree pruning, dead vegetation collection and removal.
- Foot traffic or heavy equipment on the media surface should be avoided to minimize compaction.
- Removal of standing water, which may contribute to the development of aquatic plant communities or mosquito breeding areas.
- Erosion and structural maintenance to prevent the loss of soil and maintain the performance of all landscaping.
- Outlet maintenance: maintain trash free; remove silt; clear clogged outlets and standing Water after 96 hours.
- Typically maintenance can be performed with equipment normally carried by landscape maintenance crews.
- Access to all bioretention basins can be gained through parking lots adjacent the facilities.

g. Tree Wells

Tree Wells			
When	**Maintenance Task**	**Frequency**	**Time of the Year**
Initial maintenance during establishment period (First three years)	Inspect tree for health and establishment and report any changes to County	Three times during establishment; Every five years for life of tree	Spring lst Season Fall lst Season Fall 2nd Season
	Remove stakes and wires.	One time	One year after planting
	Water tree – first year	25 gallons Weekly via slow release device	April-October
	Water tree – second & third year	25 gallons Bi-Monthly via slow release device	April-October
Routine Maintenance	Remove weeds and trash	Quarterly inspection at minimum and maintenance as needed.	March-November
	Remove sediment and trash from any inlets and slot drains	Annually or as needed.	
As-Needed Maintenance	Mulch with 3 inches double ground shredded hardwood mulch. Place mulch in a ring to capture rain water. Mulch shall not be mounded around tree.	Annually or as needed.	Feb-April
	Inspect tree for damage, disease, or interference with utilities. Contact City if pruning is required.	Annually or as needed.	Broken branches should be pruned at any time. Most trees should be pruned in the winter or fall.

h. Outlet Structures

All outlet structures shall be kept functional at all times. Routine inspection and corrective maintenance shall include removal of trash sediment and debris and repair of any structural damage or clogging of orifice outlets. The minimum maintenance frequency shall be 30 days prior to October 1st each year, weekly during rainy season or within 24 hours prior to forecasts.

To clean lower orifice in the event of clogging

- This activity will require workers to open catch basin grates to remove debris from the lower orifice plate.
- Remove grate and visually inspect lower orifice plate and blockage
- Remove debris from inside of catch basin and around orifice plate
- Replace grate when orifice plate and inside of catch basin are free of debris
- Typically maintenance can be performed with equipment normally carried by landscape maintenance crews.
- Access to all bioretention basins can be gained though parking lots adjacent all facilities.

i. **Vector Management Control Requirements**

Due to Clean Water Act requirements and mandates imposed by the Water Quality Control Board, large quantities of stormwater will be detained onsite in above ground and underground storage facilities for treatment and storage. These storage facilities are required to dewater or discharge at a very small flow rate in order to comply with these requirements. The outlet structure for the underground storage and biofiltration facility had to be sized to a fraction of an inch in order to maintain the maximum allowed discharge flow. The facility was designed for the surface to dewater in less than 24 hours. However, due to its small size and if not properly maintained regularly, it is anticipated that the outlet might have a tendency to clog frequently. Consequently, the surface of the facility may not drain within 24 hours and possibly take substantially longer time. This creates an increased risk for onsite Vector Issues and bringing their potential for severe harm to human health. Any water that may remain within the gravel storage layer of the facility after 96 hours does not have a direct access to the surface and therefore does not pose any Vector Issues.

In order to implement vector controls including minimizing the risk for mosquito-borne disease transmission, **It is the responsibility of the Owner to regularly maintain the outlet structures and monitor the site after every storm event to ensure that the system (comprising of above ground storage facilities) is dewatered in less than 96 hours**. Otherwise the owner will be required to implement a vector control plan in accordance with California Department of Public Health.

j. FLoGard Catch Basin Insert Filter

Catch basin inlet filter helps prevent dirt and debris from clogging the drainage system. Adding a filter is a simple solution to keep water flowing through a drainage system and a cost-effective alternative to expensive repair or replacement. During the rainy season all inlets shall be inspected weekly and after each rain storm to insure that there is no trash and or silt build up that will restrict the run-off flow from the roof. All trash and/or silt build up shall be removed immediately.

PREVENTATIVE MAINTENANCE AND ROUTINE INSPECTION					
TYPE BMP	Routine Action	Maintenance Indicator	Maintenance Frequency	MAINTENANCE ACTIVITY	SITE-SPECIFIC REQUIREMENTS
Landscaping & irrigation	Proper irrigation & Fertilizer tablets use not granules.	Less than 80% coverage	30 days prior to October 1st each year and Monthly	Re-seed or Re-plant. Repair Irrigation system with-in 5-days.	All slopes and landscaped areas are to have a minimum coverage of 80%
Trash storage areas	Trash free and removal of silt	Visual Inspection	Daily inspection	Remove trash and silt Daily.	All trash storage areas to be free from trash and silt at all times
Roof drain	Trash free and removal of silt, sedimentation & Debris	Silt build-up of more than 1" no trash	30 days prior to October 1st each year and weekly during rainy season	Remove all trash and silt and repair any damage to roof drains,	All Roof to be free from trash and silt and in good repair
Bioretention	Trash free and removal of silt. Clear Clogged outlets and Standing Water.	Silt build-up of more than 2" no trash, Exposed soils, dead vegetation, ponded water, and excessive vegetation (see TC-32)	30 days prior to October 1st each year, monthly during rainy season, and after Storm Event	Remove trash and silt –repair and reseed exposed areas, maintain grass height so as not be shorter than 2" or higher than 5" remove all ponded water weekly inspections, (See TC-32)	All bio-filters to be free from trash and silt at all times, grass area to be free from exposed soil and maintained to proper height, ponding of water for more than 72 hours maintenance will be required

RECORDING REQUESTED BY AND
WHEN RECORDED RETURN TO:

Insert entity and address
(include a recorded copy in the Final WQMP and provide the City with a copy)

Above Space for Recorder's Use

DECLARATION OF WATER QUALITY MANAGEMENT PLAN RESTRICTIVE COVENANT

This Declaration of Water Quality Management Plan Restrictive Covenant (this "Covenant") is made this _____ day of _____, 2018 by CK 17, LP, A California Limited Partnership ("Owner")

A. The Owner of that certain real property (the "Property") located in the City of Murrieta, California ("City"), more particularly described in Exhibit "A" attached hereto and incorporated herein by this reference and has proposed that the Property be developed by Owner in accordance with the governmental approvals issued by the City and other governmental or quasi-governmental agencies having jurisdiction over the Property.

B. In accordance with the Murrieta Municipal Code, applicable State of California statutes, and other ordinances and regulations (collectively, the "Stormwater Laws") of City and the State of California which regulate land development and urban runoff, the Owners have prepared and submitted to the City a Final Water Quality Management Plan ("WQMP"), which is on file with City's Engineering Department and a copy of which is required to be kept on the Property. The WQMP proposes that stormwater runoff from the Property be managed by the use of the stormwater management facilities, which are identified in the WQMP as "Best Management Practices" or "BMP's." The precise location(s) and extent of the BMP's are indicated within the WQMP. The WQMP specifies the manner and standards by which the BMP's must be repaired and maintained in order to retain their effectiveness.

C. The purpose of this Covenant is to assure that the BMP's are adequately maintained by creating obligations which are enforceable against the Owner and its successors in interest in the Property. The Owner intends that these obligations be enforceable notwithstanding other provisions related to BMP maintenance which are provided by law.

COVENANT TERMS, CONDITIONS, AND RESTRICTIONS

In consideration of the above recitals and the mutual covenants, terms, conditions and restrictions contained herein, and pursuant to the laws of the United States, the State of California and the City of Murrieta Municipal Code, Owner hereby declares the Property shall be held, transferred, conveyed, leased, occupied or otherwise disposed of and used subject to the following restrictive covenants (and incorporating the above recitals herein by reference), which shall run with the land and be binding on the Owner's heirs, successors in interest, administrators, assigns, lessees or other occupiers and users (collectively "Successors") of the Property or any portion thereof.

1. Maintenance of Stormwater Management Facilities.

1.1. Owner agrees, for themselves and their successors in interest to all or any portion of the Property, to comply in all respects with the requirements of the Stormwater Laws and the WQMP with regards to the construction and maintenance of BMP's designated in the WQMP. The Owner and its Successors, in particular agree to perform, at its sole cost, expense and liability, all inspections, cleaning, repairs, servicing, and maintenance with respect to all of the BMP's listed in Exhibit "B" attached hereto and incorporated herein by this reference (the "Maintenance Activities"). The Owner and its Successors shall initiate, perform and complete all Maintenance Activities at the required time, without request or demand from the City, or any other agency. Owner and its Successors shall keep a report of any inspections and/or maintenance of the BMP's for review at any time by City or the Water Quality Board for the region. The Owner and its Successors further agree that Maintenance Activities shall include replacement or modification of the BMP's in the event of failure. Replacement shall be with an identical type, size and model of BMP subject to applicable Stormwater Laws, except that:

A. The City Engineer may authorize substitution of an alternative BMP if he or she determines that it will function as well as the failed BMP; or

B. If the failure of the BMP, in the reasonable judgment of the City Engineer indicates that the BMP in use is inappropriate or inadequate to the circumstances, the BMP must be modified or replaced with an upgraded BMP to prevent future failure.

1.2. The Owner and its Successors shall, at all times, be subject to the Stormwater Laws with respect to the City's right of entry, inspection and maintenance or abatement.

2. Covenant Binds Successors and Runs with the Property. It is understood and agreed that the terms, covenants and conditions herein contained shall constitute covenants running with the land and shall be binding upon the heirs, executors, administrators, successors and assigns of the Owner and its Successors, and shall be deemed to be for the benefit of all persons owning any interest in the Property. It is the intent of the Owner that this Covenant may be recorded and shall be binding upon all persons purchasing or otherwise

acquiring all or any lot, unit or other portion of the Property who shall be deemed to have consented to and become bound by all the provisions hereof.

3. Amendment and Release. The terms of this Covenant may be modified only by a written amendment approved and signed by City and by the Owner or its Successors in interest. This Covenant may be terminated and Owner and its Successors released from the covenants set forth herein by a written release which City may execute if it determines that another mechanism will assure the ongoing maintenance of the BMP's and transfers of ownership, or that it is no longer necessary to assure such maintenance and transfers of ownership.

4. Governing Law and Severability. This Covenant shall be governed by the laws of the State of California. Venue in any action related to this Covenant shall be in the Superior Court of the State of California, County of Riverside. In the event that any of the provisions of this Covenant are held to be unenforceable or invalid by any court of competent jurisdiction, the validity, and enforceability of the remaining provisions shall not be affected thereby.

[SIGNATURES FOLLOW ON NEXT PAGE]

IN WITNESS WHEREOF, the Owner has executed this Covenant on the day and year first written above.

"OWNER":

Curci, LLC, A California Limited Partnership,
a California limited liability company

By:_____
Name:_____
Its:_____

Signature must be notarized. Attach notary acknowledgment

Appendix 10: Educational Materials

BMP Fact Sheets, Maintenance Guidelines and Other End-User BMP Information

Examples of material to provide in Appendix 10 may include but are not limited to the following:

- BMP Fact Sheets for proposed BMPs form Exhibit C: LID BMP Design Handbook of the SMR WQMP,
- Source control information and training material for site owners and operators,
- O&M training material,
- Other educational/training material related to site drainage and BMPs.

Spill Prevention, Control & Cleanup SC-11



Objectives

- Cover
- Contain
- Educate
- Reduce/Minimize
- Product Substitution

Description

Spills and leaks, if not properly controlled, can adversely impact the storm drain system and receiving waters. Due to the type of work or the materials involved, many activities that occur either at a municipal facility or as a part of municipal field programs have the potential for accidental spills and leaks. Proper spill response planning and preparation can enable municipal employees to effectively respond to problems when they occur and minimize the discharge of pollutants to the environment.

Targeted Constituents

Sediment	
Nutrients	☑
Trash	
Metals	☑
Bacteria	
Oil and Grease	☑
Organics	☑
Oxygen Demanding	☑

Approach

- An effective spill response and control plan should include:
  - Spill/leak prevention measures;
  - Spill response procedures;
  - Spill cleanup procedures;
  - Reporting; and
  - Training
- A well thought out and implemented plan can prevent pollutants from entering the storm drainage system and can be used as a tool for training personnel to prevent and control future spills as well.

Pollution Prevention

- Develop and implement a Spill Prevention Control and Response Plan. The plan should include:

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- A description of the facility, the address, activities and materials involved
- Identification of key spill response personnel
- Identification of the potential spill areas or operations prone to spills/leaks
- Identification of which areas should be or are bermed to contain spills/leaks
- Facility map identifying the key locations of areas, activities, materials, structural BMPs, etc.
- Material handling procedures
- Spill response procedures including:
    - Assessment of the site and potential impacts
    - Containment of the material
    - Notification of the proper personnel and evacuation procedures
    - Clean up of the site
    - Disposal of the waste material and
    - Proper record keeping

- Product substitution – use less toxic materials (i.e. use water based paints instead of oil based paints)
- Recycle, reclaim, or reuse materials whenever possible. This will reduce the amount of materials that are brought into the facility or into the field.

Suggested Protocols

Spill/Leak Prevention Measures

- If possible, move material handling indoors, under cover, or away from storm drains or sensitive water bodies.
- Properly label all containers so that the contents are easily identifiable.
- Berm storage areas so that if a spill or leak occurs, the material is contained.
- Cover outside storage areas either with a permanent structure or with a seasonal one such as a tarp so that rain can not come into contact with the materials.
- Check containers (and any containment sumps) often for leaks and spills. Replace containers that are leaking, corroded, or otherwise deteriorating with containers in good condition. Collect all spilled liquids and properly dispose of them.

- Store, contain and transfer liquid materials in such a manner that if the container is ruptured or the contents spilled, they will not discharge, flow or be washed into the storm drainage system, surface waters, or groundwater.

- Place drip pans or absorbent materials beneath all mounted taps and at all potential drip and spill locations during the filling and unloading of containers. Any collected liquids or soiled absorbent materials should be reused/recycled or properly disposed of.

- For field programs, only transport the minimum amount of material needed for the daily activities and transfer materials between containers at a municipal yard where leaks and spill are easier to control.

- If paved, sweep and clean storage areas monthly, do not use water to hose down the area unless all of the water will be collected and disposed of properly.

- Install a spill control device (such as a tee section) in any catch basins that collect runoff from any storage areas if the materials stored are oil, gas, or other materials that separate from and float on water. This will allow for easier cleanup if a spill occurs.

- If necessary, protect catch basins while conducting field activities so that if a spill occurs, the material will be contained.

Training

- Educate employees about spill prevention, spill response and cleanup on a routine basis.

- Well-trained employees can reduce human errors that lead to accidental releases or spills:

  - The employees should have the tools and knowledge to immediately begin cleaning up a spill if one should occur.

  - Employees should be familiar with the Spill Prevention Control and Countermeasure Plan if one is available.

- Training of staff from all municipal departments should focus on recognizing and reporting potential or current spills/leaks and who they should contact.

- Employees responsible for aboveground storage tanks and liquid transfers for large bulk containers should be thoroughly familiar with the Spill Prevention Control and Countermeasure Plan and the plan should be readily available.

Spill Response and Prevention

- Identify key spill response personnel and train employees on who they are.

- Store and maintain appropriate spill cleanup materials in a clearly marked location near storage areas; and train employees to ensure familiarity with the site's spill control plan and/or proper spill cleanup procedures.

- Locate spill cleanup materials, such as absorbents, where they will be readily accessible (e.g. near storage and maintenance areas, on field trucks).

SC-11 Spill Prevention, Control & Cleanup

- Follow the Spill Prevention Control and Countermeasure Plan if one is available.
- If a spill occurs, notify the key spill response personnel immediately. If the material is unknown or hazardous, the local fire department may also need to be contacted.
- If safe to do so, attempt to contain the material and block the nearby storm drains so that the area impacted is minimized. If the material is unknown or hazardous wait for properly trained personnel to contain the materials.
- Perform an assessment of the area where the spill occurred and the downstream area that it could impact. Relay this information to the key spill response and clean up personnel.

Spill Cleanup Procedures

- Small non-hazardous spills
  - Use a rag, damp cloth or absorbent materials for general clean up of liquids
  - Use brooms or shovels for the general clean up of dry materials
  - If water is used, it must be collected and properly disposed of. The wash water can not be allowed to enter the storm drain.
  - Dispose of any waste materials properly
  - Clean or dispose of any equipment used to clean up the spill properly
- Large non-hazardous spills
  - Use absorbent materials for general clean up of liquids
  - Use brooms, shovels or street sweepers for the general clean up of dry materials
  - If water is used, it must be collected and properly disposed of. The wash water can not be allowed to enter the storm drain.
  - Dispose of any waste materials properly
  - Clean or dispose of any equipment used to clean up the spill properly
- For hazardous or very large spills, a private cleanup company or Hazmat team may need to be contacted to assess the situation and conduct the cleanup and disposal of the materials.
- Chemical cleanups of material can be achieved with the use of absorbents, gels, and foams. Remove the adsorbent materials promptly and dispose of according to regulations.
- If the spilled material is hazardous, then the used cleanup materials are also hazardous and must be sent to a certified laundry (rags) or disposed of as hazardous waste.

Reporting

- Report any spills immediately to the identified key municipal spill response personnel.

- Report spills in accordance with applicable reporting laws. Spills that pose an immediate threat to human health or the environment must be reported immediately to the Office of Emergency Service (OES)

- Spills that pose an immediate threat to human health or the environment may also need to be reported within 24 hours to the Regional Water Quality Control Board.

- Federal regulations require that any oil spill into a water body or onto an adjoining shoreline be reported to the National Response Center (NRC) at 800-424-8802 (24 hour)

- After the spill has been contained and cleaned up, a detailed report about the incident should be generated and kept on file (see the section on Reporting below). The incident may also be used in briefing staff about proper procedures

Other Considerations

- State regulations exist for facilities with a storage capacity of 10,000 gallons or more of petroleum to prepare a Spill Prevention Control and Countermeasure Plan (SPCC) Plan (Health & Safety Code Chapter 6.67).

- State regulations also exist for storage of hazardous materials (Health & Safety Code Chapter 6.95), including the preparation of area and business plans for emergency response to the releases or threatened releases.

- Consider requiring smaller secondary containment areas (less than 200 sq. ft.) to be connected to the sanitary sewer, if permitted to do so, prohibiting any hard connections to the storm drain.

Requirements

Costs

- Will vary depending on the size of the facility and the necessary controls.

- Prevention of leaks and spills is inexpensive. Treatment and/or disposal of wastes, contaminated soil and water is very expensive

Maintenance

- This BMP has no major administrative or staffing requirements. However, extra time is needed to properly handle and dispose of spills, which results in increased labor costs

Supplemental Information

Further Detail of the BMP

Reporting

Record keeping and internal reporting represent good operating practices because they can increase the efficiency of the response and containment of a spill. A good record keeping system helps the municipality minimize incident recurrence, correctly respond with appropriate containment and cleanup activities, and comply with legal requirements.

A record keeping and reporting system should be set up for documenting spills, leaks, and other discharges, including discharges of hazardous substances in reportable quantities. Incident records describe the quality and quantity of non-stormwater discharges to the storm drain.

These records should contain the following information:

- Date and time of the incident
- Weather conditions
- Duration of the spill/leak/discharge
- Cause of the spill/leak/discharge
- Response procedures implemented
- Persons notified
- Environmental problems associated with the spill/leak/discharge

Separate record keeping systems should be established to document housekeeping and preventive maintenance inspections, and training activities. All housekeeping and preventive maintenance inspections should be documented. Inspection documentation should contain the following information:

- The date and time the inspection was performed
- Name of the inspector
- Items inspected
- Problems noted
- Corrective action required
- Date corrective action was taken

Other means to document and record inspection results are field notes, timed and dated photographs, videotapes, and drawings and maps.

Examples

The City of Palo Alto includes spill prevention and control as a major element of its highly effective program for municipal vehicle maintenance shops.

References and Resources

King County Stormwater Pollution Control Manual - http://dnr.metrokc.gov/wlr/dss/spcm.htm

Orange County Stormwater Program
http://www.ocwatersheds.com/stormwater/swp_introduction.asp

San Diego Stormwater Co-permittees Jurisdictional Urban Runoff Management Program (URMP)
http://www.projectcleanwater.org/pdf/Model%20Program%20Municipal%20Facilities.pdf

Vehicle and Equipment Fueling SC-20



Objectives

- Cover
- Contain
- Educate
- Reduce/Minimize

Targeted Constituents

Sediment	
Nutrients	
Trash	☑
Metals	☑
Bacteria	
Oil and Grease	☑
Organics	☑
Oxygen Demanding	

Description

Spills and leaks that occur during vehicle and equipment fueling can contribute hydrocarbons, oil and grease, as well as heavy metals to stormwater runoff. Implementing the following management practices can help prevent fuel spills and leaks.

Approach

Reduce potential for pollutant discharge through source control pollution prevention and BMP implementation. Successful implementation depends on effective training of employees on applicable BMPs and general pollution prevention strategies and objectives.

Pollution Prevention

- Use properly maintained offsite fueling stations whenever possible. These businesses are better equipped to handle fuel and spills properly.
- Educate employees about pollution prevention measures and goals
- Focus pollution prevention activities on containment of spills and leaks, most of which may occur during liquid transfers.

Suggested Protocols

General

- "Spot clean" leaks and drips routinely. Leaks are not cleaned up until the absorbent is picked up and disposed of properly.

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- Label drains within the facility boundary, by paint/stencil (or equivalent), to indicate whether they flow to an oil/water separator, directly to the sewer, or to a storm drain. Labels are not necessary for plumbing fixtures directly connected to the sanitary sewer but may be useful to help eliminate confusion about where the drain leads.
- Post signs to remind employees not to top off the fuel tank when filling and signs that ban employees from changing engine oil or other fluids at that location.
- Report leaking vehicles to fleet maintenance.
- Install inlet catch basin equipped with a small sedimentation basin or grit chamber to remove large particles from stormwater in highly impervious areas. Proper maintenance of these devices is necessary.
- Accumulated non-contaminated stormwater (e.g., in a secondary containment) should be released prior to next storm.
- Ensure the following safeguards are in place:
  - Overflow protection devices on tank systems to warn the operator to automatically shutdown transfer pumps when the tank reaches full capacity.
  - Protective guards around tanks and piping to prevent vehicle or forklift damage.
  - Clearly tagging or labeling all valves to reduce human error.
  - Automatic shut off for severed fuel hoses.

Fuel Dispensing Areas

- Maintain clean fuel-dispensing areas using dry cleanup methods such as sweeping for removal of litter and debris, or use of rags and absorbents for leaks and spills. Do not wash down areas with water.
- Fit underground storage tanks with spill containment and overfill prevention systems meeting the requirements of Section 2635(b) of Title 23 of the California Code of Regulations.
- Fit fuel dispensing nozzles with "hold-open latches" (automatic shutoffs) except where prohibited by local fire departments.
- Post signs at the fuel dispenser or fuel island warning vehicle owners/operators against "topping off" of vehicle fuel tanks.
- Design fueling area to prevent stormwater runoff and spills.
- Cover fueling area with an overhanging roof structure or canopy so that precipitation cannot come in contact with the fueling area and if possible use a perimeter drain or slope pavement inward with drainage to a blind sump (must be properly maintained and water properly disposed of); pave area with concrete rather than asphalt.

- Apply a suitable sealant that protects the asphalt from spilled fuels in areas where covering is infeasible and the fuel island is surrounded by pavement.
- Install vapor recovery nozzles to help control drips as well as air pollution.
- Use secondary containment when transferring fuel from the tank truck to the fuel tank.
- Cover storm drains in the vicinity during transfer.

Outdoor Waste Receptacle Area

- Spot clean leaks and drips routinely to prevent runoff of spillage.
- Minimize the possibility of stormwater pollution from outside waste receptacles by using an effective combination of the following:
  - use only watertight waste receptacle(s) and keep the lid(s) closed, or
  - grade and pave the waste receptacle area to prevent runon of stormwater, or
  - install a roof over the waste receptacle area, or
  - install a low containment berm around the waste receptacle area, or
  - use and maintain drip pans under waste receptacles. Containment areas and drip pans must be properly maintained and collected water disposed of properly (e.g., to sanitary sewer). Several drip pans should be stored in a covered location near outdoor waste receptacle area so that they are always available, yet protected from precipitation when not in use.
- Post "no littering" signs.

Air/Water Supply Area

- Minimize the possibility of stormwater pollution from air/water supply areas by implementing an effective combination of the following:
  - spot clean leaks and drips routinely to prevent runoff of spillage, or
  - grade and pave the air/water supply area to prevent runon of stormwater, or
  - install a roof over the air/water supply area, or
  - install a low containment berm around the air/water supply area. Maintain containment areas and dispose of contaminated water properly (e.g., to sanitary sewer).

Inspection

- Aboveground Tank Leak and Spill Control:
  - Check for external corrosion and structural failure.

- Check for spills and overfills due to operator error.
- Check for failure of piping system.
- Check for leaks or spills during pumping of liquids or gases from truck or rail car to a storage facility or vice versa.
- Visually inspect new tank or container installation for loose fittings, poor welding, and improper or poorly fitted gaskets.
- Inspect tank foundations, connections, coatings, and tank walls and piping system. Look for corrosion, leaks, cracks, scratches, and other physical damage that may weaken the tank or container system.
- Periodically, integrity testing should be conducted by a qualified professional.

- Inspect and clean, if necessary, storm drain inlets and catch basins within the facility boundary before October 1 each year.

Training

- Train all employees upon hiring and annually thereafter on proper methods for handling and disposing of waste. Make sure that all employees understand stormwater discharge prohibitions, wastewater discharge requirements, and these best management practices.
- Train employees on proper fueling and cleanup procedures.
- Use a training log or similar method to document training.
- Ensure that employees are familiar with the site's spill control plan and/or proper spill cleanup procedures.

Spill Response and Prevention

- Keep your Spill Prevention Control and Countermeasure (SPCC) Plan up-to-date.
- Place stockpiles of spill cleanup materials where they are readily accessible.
- Use adsorbent materials on small spills and general cleaning rather than hosing down the area. Remove the adsorbent materials promptly and dispose properly.
- Store portable absorbent booms (long flexible shafts or barriers made of absorbent material) in unbermed fueling areas.
- Report spills promptly.
- Install an oil/water separator and connect to the sanitary sewer (if allowed), if a dead-end sump is not used to collect spills.

Other Considerations

- Carry out all federal and state requirements regarding underground storage tanks, or install above ground tanks.

Requirements

Costs

- The retrofitting of existing fueling areas to minimize stormwater exposure or spill runoff can be expensive. Good design must occur during the initial installation.
- Extruded curb along the "upstream" side of the fueling area to prevent stormwater runon is of modest cost.

Maintenance

- Clean oil/water separators at appropriate intervals.
- Keep ample supplies of spill cleanup materials onsite.
- Inspect fueling areas, storage tanks, catch basin inserts, containment areas, and drip pans on a regular schedule.

Supplemental Information

Design Considerations

Designing New Installations

The elements listed below should be included in the design and construction of new or substantially remodeled facilities.

Fuel Dispensing Areas

- Fuel dispensing areas must be paved with Portland cement concrete (or, equivalent smooth impervious surface), with a 2% to 4% slope to prevent ponding, and must be separated from the rest of the site by a grade break that prevents runon of stormwater to the extent practicable. The fuel dispensing area is defined as extending 6.5 feet from the corner of each fuel dispenser or the length at which the hose and nozzle assembly may be operated plus 1 foot, whichever is less. The paving around the fuel dispensing area may exceed the minimum dimensions of the "fuel dispensing area" stated above.
- The fuel dispensing area must be covered, and the cover's minimum dimensions must be equal to or greater than the area within the grade break or the fuel dispensing area, as defined above. The cover must not drain onto the fuel dispensing area.
- If necessary install and maintain an oil control device in the appropriate catch basin(s) to treat runoff from the fueling area.

Outdoor Waste Receptacle Area

- Grade and pave the outdoor waste receptacle area to prevent runon of stormwater to the extent practicable.

Air/Water Supply Area

- Grade and pave the air/water supply area to prevent runon of stormwater to the extent practicable.

Designated Fueling Area

- If your facility has large numbers of mobile equipment working throughout the site and you currently fuel them with a mobile fuel truck, consider establishing a designated fueling area. With the exception of tracked equipment such as bulldozers and perhaps small forklifts, most vehicles should be able to travel to a designated area with little lost time. Place temporary "caps" over nearby catch basins or manhole covers so that if a spill occurs it is prevented from entering the storm drain.

Examples

The Spill Prevention Control and Countermeasure (SPCC) Plan, which is required by law for some facilities, is an effective program to reduce the number of accidental spills and minimize contamination of stormwater runoff.

The City of Palo Alto has an effective program for commercial vehicle service facilities. Many of the program's elements, including specific BMP guidance and lists of equipment suppliers, are also applicable to industrial facilities.

References and Resources

Best Management Practice Guide for Retail Gasoline Outlets, California Stormwater Quality Task Force. 1997.

King County Stormwater Pollution Control Manual – http//www.dnr.metrokc.gov/wlr/dss/spcm.htm

Orange County Stormwater Program http://www.ocwatersheds.com/StormWater/swp_introduction.asp

San Diego Stormwater Co-permittees Jurisdictional Urban Runoff Management Program (URMP)

Plaza and Sidewalk Cleaning SC-71



Objectives

- Cover
- Contain
- Educate
- Reduce/Minimize
- Product Substitution

Targeted Constituents

Sediment	☑
Nutrients	☑
Trash	☑
Metals	☑
Bacteria	☑
Oil and Grease	☑
Organics	☑
Oxygen Demanding	☑

Description

Pollutants on sidewalks and other pedestrian traffic areas and plazas are typically due to littering and vehicle use. This fact sheet describes good housekeeping practices that can be incorporated into the municipality's existing cleaning and maintenance program.

Approach

Pollution Prevention

- Use dry cleaning methods whenever practical for surface cleaning activities.
- Use the least toxic materials available (e.g. water based paints, gels or sprays for graffiti removal).

Suggested Protocols

Surface Cleaning

- Regularly broom (dry) sweep sidewalk, plaza and parking lot areas to minimize cleaning with water.
- Dry cleanup first (sweep, collect, and dispose of debris and trash) when cleaning sidewalks or plazas, then wash with or without soap.
- Block the storm drain or contain runoff when cleaning with water. Discharge wash water to landscaping or collect water and pump to a tank or discharge to sanitary sewer if allowed. (Permission may be required from local sanitation district.)

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- Block the storm drain or contain runoff when washing parking areas, driveways or drive-throughs. Use absorbents to pick up oil; then dry sweep. Clean with or without soap. Collect water and pump to a tank or discharge to sanitary sewer if allowed. Street Repair and Maintenance.

Graffiti Removal

- Avoid graffiti abatement activities during rain events.
- Implement the procedures under Painting and Paint Removal in SC-70 Roads, Streets, and Highway Operation and Maintenance fact sheet when graffiti is removed by painting over.
- Direct runoff from sand blasting and high pressure washing (with no cleaning agents) into a dirt or landscaped area after treating with an appropriate filtering device.
- Plug nearby storm drain inlets and vacuum/pump wash water to the sanitary sewer if authorized to do so if a graffiti abatement method generates wash water containing a cleaning compound (such as high pressure washing with a cleaning compound). Ensure that a non-hazardous cleaning compound is used or dispose as hazardous waste, as appropriate.

Surface Removal and Repair

- Schedule surface removal activities for dry weather if possible.
- Avoid creating excess dust when breaking asphalt or concrete.
- Take measures to protect nearby storm drain inlets prior to breaking up asphalt or concrete (e.g. place hay bales or sand bags around inlets). Clean afterwards by sweeping up as much material as possible.
- Designate an area for clean up and proper disposal of excess materials.
- Remove and recycle as much of the broken pavement as possible to avoid contact with rainfall and stormwater runoff.
- When making saw cuts in pavement, use as little water as possible. Cover each storm drain inlet completely with filter fabric during the sawing operation and contain the slurry by placing straw bales, sandbags, or gravel dams around the inlets. After the liquid drains or evaporates, shovel or vacuum the slurry residue from the pavement or gutter and remove from site.
- Always dry sweep first to clean up tracked dirt. Use a street sweeper or vacuum truck. Do not dump vacuumed liquid in storm drains. Once dry sweeping is complete, the area may be hosed down if needed. Wash water should be directed to landscaping or collected and pumped to the sanitary sewer if allowed.

Concrete Installation and Repair

- Schedule asphalt and concrete activities for dry weather.

- Take measures to protect any nearby storm drain inlets and adjacent watercourses, prior to breaking up asphalt or concrete (e.g. place san bags around inlets or work areas).
- Limit the amount of fresh concrete or cement mortar mixed, mix only what is needed for the job.
- Store concrete materials under cover, away from drainage areas. Secure bags of cement after they are open. Be sure to keep wind-blown cement powder away from streets, gutters, storm drains, rainfall, and runoff.
- Return leftover materials to the transit mixer. Dispose of small amounts of hardened excess concrete, grout, and mortar in the trash.
- Do not wash sweepings from exposed aggregate concrete into the street or storm drain. Collect and return sweepings to aggregate base stockpile, or dispose in the trash.
- Protect applications of fresh concrete from rainfall and runoff until the material has dried.
- Do not allow excess concrete to be dumped onsite, except in designated areas.
- Wash concrete trucks off site or in designated areas on site designed to preclude discharge of wash water to drainage system.

Controlling Litter

- Post "No Littering" signs and enforce anti-litter laws.
- Provide litter receptacles in busy, high pedestrian traffic areas of the community, at recreational facilities, and at community events.
- Cover litter receptacles and clean out frequently to prevent leaking/spillage or overflow.
- Clean parking lots on a regular basis with a street sweeper.

Training

- Provide regular training to field employees and/or contractors regarding surface cleaning and proper operation of equipment.
- Train employee and contractors in proper techniques for spill containment and cleanup.
- Use a training log or similar method to document training.

Spill Response and Prevention

- Refer to SC-11, Spill Prevention, Control & Cleanup.
- Have spill cleanup materials readily available and in a known location.
- Cleanup spills immediately and use dry methods if possible.
- Properly dispose of spill cleanup material.

Other Considerations

- Limitations related to sweeping activities at large parking facilities may include current sweeper technology to remove oil and grease.
- Surface cleaning activities that require discharges to the local sewering agency will require coordination with the agency.
- Arrangements for disposal of the swept material collected must be made, as well as accurate tracking of the areas swept and the frequency of sweeping.

Requirements

Costs

- The largest expenditures for sweeping and cleaning of sidewalks, plazas, and parking lots are in staffing and equipment. Sweeping of these areas should be incorporated into street sweeping programs to reduce costs.

Maintenance

Not applicable

Supplemental Information

Further Detail of the BMP

Community education, such as informing residents about their options for recycling and waste disposal, as well as the consequences of littering, can instill a sense of citizen responsibility and potentially reduce the amount of maintenance required by the municipality.

Additional BMPs that should be considered for parking lot areas include:

- Allow sheet runoff to flow into biofilters (vegetated strip and swale) and infiltration devices.
- Utilize sand filters or oleophilic collectors for oily waste in low concentrations.
- Arrange rooftop drains to prevent drainage directly onto paved surfaces.
- Design lot to include semi-permeable hardscape.
- Structural BMPs such as storm drain inlet filters can be very effective in reducing the amount of pollutants discharged from parking facilities during periods of rain.

References and Resources

Bay Area Stormwater Management Agencies Association (BASMAA). 1996. Pollution From Surface Cleaning Folder http://www.basmaa.org

Model Urban Runoff Program: A How-To Guide for Developing Urban Runoff Programs for Small Municipalities. Prepared by City of Monterey, City of Santa Cruz, California Coastal Commission, Monterey Bay National Marine Sanctuary, Association of Monterey Bay Area Governments, Woodward-Clyde, Central Coast Regional Water Quality Control Board. July. 1998.

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http://www.ocwatersheds.com/stormwater/swp_introduction.asp

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Santa Clara Valley Urban Runoff Pollution Prevention Program. Maintenance Best Management Practices for the Construction Industry. Brochures: Landscaping, Gardening, and Pool; Roadwork and Paving; and Fresh Concrete and Mortar Application. June 2001.

San Diego Stormwater Co-permittees Jurisdictional Urban Runoff Management Plan. 2001. Municipal Activities Model Program Guidance. November.

Water & Sewer Utility Maintenance SC-76



Objectives

- Contain
- Educate
- Reduce/Minimize

Description

Although the operation and maintenance of public utilities are not considered chronic sources of stormwater pollution, some activities and accidents can result in the discharge of pollutants that can pose a threat to both human health and the quality of receiving waters if they enter the storm drain system. Sewage incident response and investigation may involve a coordinated effort between staff from a number of different departments/agencies. Cities that do not provide maintenance of water and sewer utilities must coordinate with the contracting agency responsible for these activities and ensure that these model procedures are followed.

Targeted Constituents

Sediment	☑
Nutrients	☑
Trash	
Metals	
Bacteria	☑
Oil and Grease	☑
Organics	☑
Oxygen Demanding	☑

Approach

Pollution Prevention

Inspect potential non-stormwater discharge flow paths and clear/cleanup any debris or pollutants found (i.e. remove trash, leaves, sediment, and wipe up liquids, including oil spills).

Suggested Protocols

Water Line Maintenance and Cleaning

Procedures can be employed to reduce pollutants from discharges associated with water utility operation and maintenance activities. Planned discharges may include fire hydrant testing, flushing water supply mains after new construction, flushing lines due to complaints of taste and odor, dewatering mains for maintenance work. Unplanned discharges from treated, recycled water, raw water, and groundwater systems operation and maintenance activities can occur from water main

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breaks, sheared fire hydrants, equipment malfunction, and operator error.

Planned discharges

- Identify a suitable discharge option in the following order of preference:
  - Apply to the land.
  - Reuse water for dust suppression, irrigation, or construction compaction.
  - Discharge to a sanitary sewer system with approval.
  - Discharge to the storm drain system using applicable pollution control measures. (Only available to clean water discharges such as water main/ water storage tank/water hydrant flushing).
- If water is discharged to a storm drain, control measures must be put in place to control potential pollutants (i.e. sediment, chlorine, etc.). Examples of some storm drain protection options include:
  - Silt fence – appropriate where the inlet drains a relatively flat area.
  - Gravel and wire mesh sediment filter – Appropriate where concentrated flows are expected.
  - Wooden weir and fabric – use at curb inlets where a compact installation is desired.
- Prior to discharge, inspect discharge flow path and clear/cleanup any debris or pollutants found (i.e. remove trash, leaves, sediment, and wipe up liquids, including oil spills).
- General Design considerations for inlet protection devices include the following:
  - The device should be constructed such that cleaning and disposal of trapped sediment is made easy, while minimizing interference with discharge activities.
  - Devices should be constructed so that any standing water resulting from the discharge will not cause excessive inconvenience or flooding/damage to adjacent land or structures.
- The effectiveness of control devices must be monitored during the discharge period and any necessary repairs or modifications made.

Unplanned Discharges

- Stop the discharge as quickly as possible.
- Inspect flow path of the discharged water:
  - Identify erodible areas which may need to be repaired or protected during subsequent repairs or corrective actions

- Identify the potential for pollutants to be washed into the waterway

- If repairs or corrective action will cause additional discharges of water, select the appropriate procedures for erosion control, chlorine residual, turbidity, and chemical additives. Prevent potential pollutants from entering the flow path.

Sanitary Sewer Maintenance

Applicable to municipalities who own and operated a sewage collection system. Facilities that are covered under this program include sanitary sewer pipes and pump stations owned and operated by a municipality. The owner of the sanitary sewer facilities is the entity responsible for carrying out this prevention and response program.

- Clean sewer lines on a regular basis to remove grease, grit, and other debris that may lead to sewer backups.

- Establish routine maintenance program. Cleaning should be conducted at an established minimum frequency and more frequently for problem areas such as restaurants that are identified

- Cleaning activities may require removal of tree roots and other identified obstructions.

- During routine maintenance and inspection note the condition of sanitary sewer structures and identify areas that need repair or maintenance. Items to note may include the following:

  - Cracked/deteriorating pipes

  - Leaking joints/seals at manhole

  - Frequent line plugs

  - Line generally flows at or near capacity

  - Suspected infiltration or exfiltration.

- Prioritize repairs based on the nature and severity of the problem. Immediate clearing of blockage or repair is required where an overflow is currently occurring or for urgent problems that may cause an imminent overflow (e.g. pump station failures, sewer line ruptures, sewer line blockages). These repairs may be temporary until scheduled or capital improvements can be completed.

- Review previous sewer maintenance records to help identify “hot spots” or areas with frequent maintenance problems and locations of potential system failure.

Spills and Overflows

- Identify and track sanitary sewer discharges. Identify dry weather infiltration and inflow first. Wet weather overflow connections are very difficult to locate.

- Locate wet weather overflows and leaking sanitary sewers using conventional source identification techniques such as monitoring and field screening. Techniques used to identify other illicit connection sources can also be used for sewer system evaluation surveys (see SC74 Drainage System Operation and Maintenance).

- Implement community awareness programs for monitoring sanitary sewer wet weather overflows. A citizen's hotline for reporting observed overflow conditions should be established to supplement field screening efforts.

- Establish lead department/agency responsible for spill response and containment. Provide coordination within departments.

- When a spill, leak, and/or overflow occurs and when disinfecting a sewage contaminated area, take every effort to ensure that the sewage, disinfectant and/or sewage treated with the disinfectant is not discharged to the storm drain system or receiving waters. Methods may include:

  - Blocking storm drain inlets and catch basins

  - Containing and diverting sewage and disinfectant away from open channels and other storm drain fixtures (using sandbags, inflatable dams, etc.)

  - Removing the material with vacuum equipment

- Record required information at the spill site.

- Perform field tests as necessary to determine the source of the spill.

- Develop notification procedures regarding spill reporting.

Septic Systems

- Ensure that homeowners, installers, and inspectors are educated in proper maintenance of septic systems. This may require coordination with staff from other departments. Outreach to homeowners should include inspection reminders informing then that inspection and perhaps maintenance is due for their systems. Recommend that the system be inspected annually and pumped-out regularly.

- Programs which seek to address failing septic systems should consider using field screening to pinpoint areas where more detailed onsite inspection surveys are warranted.

Training

- Conduct annual training of water utility personnel and service contractors. (field screening, sampling, smoke/dye testing, TV inspection).

- OSHA-required Health and Safety Training 29 CFR 1910.120 plus annual Refresher Training (as needed).

- OSHA Confined Space Entry training (Cal-OSHA Confined Space, Title 8 and federal OSHA 29 CFR 1910.146).

Spill Response and Prevention

- See previous section regarding spills and overflows.
- Refer to SC-11, Spill Prevention, Control & Cleanup.
- Have spill cleanup materials readily available and in a known location.
- Cleanup spills immediately and use dry methods if possible.
- Properly dispose of spill cleanup material.

Other Considerations

- Enact ordinance granting "right-of-entry" to locate potentially responsible parties for sewer overflows.
- Reliance on individual onsite inspection to detect failed septic systems can be a major limitation. The individual onsite inspection is very labor-intensive and requires access to private property to pinpoint the exact location of the failing system.
- A significant limitation to correcting failing septic systems is the lack of techniques available for detecting individual failed septic systems.

Requirements

Costs

- Departmental cooperation recommended for sharing or borrowing staff resources and equipment from municipal wastewater department.
- Infiltration, inflow, and wet weather overflows from sanitary sewers are very labor and equipment intensive to locate.
- The costs associated with detecting and correcting septic system failures are subject to a number of factors, including availability of trained personnel, cost of materials, and the level of follow-up required to fix the system problems.

Maintenance

- Minimum 2-person teams to perform field screening and associated sampling.
- Larger teams required for implementing other techniques (i.e. zinc chloride smoke testing, fluorometric dye testing, television camera inspection and physical inspection with confined space entry) to identify sewer system leaks.
- Program coordination required for handling emergencies, record keeping, etc.
- Many of the problems associated with improper use of septic systems may be attributed to lack of user knowledge on operation and maintenance. Educational materials for homeowners and training courses for installers and inspectors can reduce the incidence of pollution from these widespread and commonly used pollution control devices.

SC-76 Water & Sewer Utility Maintenance

Supplemental Information

Further Detail of the BMP

Onsite Sewage Disposal Systems

New onsite sewage disposal systems should be designed, located, and installed away from open waterbodies and sensitive resources such as wetlands and floodplains. A protective separation between the OSDS and groundwater should also be established. OSDSs should be operated and maintained to prevent surface water discharges and reduce pollutant loadings to groundwater. Inspection of OSDSs should occur regularly and repairs made immediately. New or replacement plumbing fixtures should be of the high efficiency type.

Typical Sanitary Sewer Problems

- Old and deteriorated main and lateral pipes - Sewers range in age from 30 to 100 years with an average age of 50 years.
- Cracked sewer pipes - Existing sewers are mostly clay pipes which can crack as they deteriorate with age and also by earth movement.
- Misaligned and open pipe joints - Most of the mortar used to seal the joints between sections of clay pipe has deteriorated.
- Undersized sewer pipe - The existing sewer system is overloaded due to new sewer hook-ups, underground water infiltration, and illegal roof and/or yard drain connections.
- Defective manholes - Old manholes are made of bricks. Typical problems associated with brick manholes are loose bricks, missing bricks, and misaligned manholes.
- Missing and/or unrecorded sewer pipes and manholes - This problem is typical in the easement/backline sewer. Sewer pipe locations shown on the sewer record map are different from the actual sewer location.
- Sewer main under houses and other improvements - Complaints of sewer main alignment crossing the house and other improvements. A solution to this problem requires an agreement with the property owner for a new sewer easement at a relocated line.

Causes of Sanitary Sewer Backups

- Root infiltration - Tree roots are a major cause of backups.
- Water inflow/infiltration - Rain water entering the sewer pipe causes overflows.
- Solids - Typical solids that buildup in the pipe and cause backups are grease, dirt, bones, tampons, paper towels, diapers, broken dishware, garbage, concrete, and debris.
- Structural defects in pipes and manholes - Sags in the line, cracks, holes, protruding laterals, misaligned pipe, offset joints are all possible causes of backups.

Design Considerations

Sanitary sewer overflows can often be reduced or eliminated by a number of practices, in addition to sewer system cleaning and maintenance, including the following:

- Reducing infiltration and inflow through rehabilitation and repair of broken or leaking sewer lines.
- Enlarging or upgrading the capacity of sewer lines, pump stations, or sewage treatment plants.
- Constructing wet weather storage and treatment facilities to treat excess flows.
- Addressing SSOs during sewer system master planning and facilities planning.

Septic Systems

Two field screening techniques that have been used with success at identifying possible locations of failing septic systems are the brightener test and color infrared (CIR) aerial photography. The first involves the use of specific phosphorus-based elements found in many laundry products, often called brighteners, as an indicator of the presence of failing onsite wastewater systems. The second technique uses color infrared (CIR) aerial photography to characterize the performance of septic systems. This method has been found to be a quick and cost-effective method for assessing the potential impacts of failing systems and uses variations in vegetative growth or stress patterns over septic system field lines to identify those systems that may potentially be malfunctioning. Then a more detailed onsite visual and physical inspection will confirm whether the system has truly failed and the extent of the repairs needed. These inspections may be carried out by county health departments or other authorized personnel.

References and Resources

Alameda Countywide Clean Water Program on-line
http://www.ci.berkeley.ca.us/pw/Storm/stormala.html

Los Angeles County Stormwater Quality. Public Agency Activities Model Program. On-line:
http://ladpw.org/wmd/npdes/public_TC.cfm

Orange County Stormwater Program
http://www.ocwatersheds.com/StormWater/swp_introduction.asp

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United States Environmental Protection Agency (USEPA). 2001. Illicit Discharge Detection and Elimination. On-line: http://cfpub.epa.gov/npdes/stormwater/menuofbmps/illi_1.cfm

United States Environmental Protection Agency (USEPA). 2001. Pollution Prevention/Good Housekeeping for Municipal Operators Septic System Controls. On-line: http://www.epa.gov/npdes/menuofbmps/poll_14.htm

Appendix G2

Hydrology/Hydraulics Study For TPM 37547
Clinton Keith Road

Hydrology/Hydraulics Study

For: TPM 37547

Clinton Keith Road

DEVELOPMENT NO. **TPM 37547**
DESIGN REVIEW NO.

Prepared for:
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Hydrology/Hydraulics Study Preparation Date: JUNE 7 2018
Revision Dates:

_____
ROBERT D. DENTINO, RCE 45629
Registration Expire: December 31, 2018

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1.0 PURPOSE OF STUDY

The purpose of this study is to support the development of a commercial project. Calculations presented here establish pre-development and post development storm runoff, and assist in the sizing of proposed drainage improvements. Calculations will demonstrate that post developed peak runoff will not exceed pre-developed peak runoff, therefore insuring no negative impacts to downstream storm drain systems and adjacent properties. Runoff from both private and public improvements will be addressed by this report.

2.0 PROJECT DESCRIPTION

The project proposes to create 6 separate legal parcels with 6 buildings, occupied with varying shops and convenience stores. The site improvements include parking, private drive isles, wet and dry utilities, storm drain, and water quality improvements.

3.0 VICINITY MAP

The project site is located in the City of Murrieta, northeast of Clinton Keith and Antelope Road as shown on the Vicinity Map. Please see Attachment A- Vicinity map.

4.0 SITE MAP

See Attachment B – Site map

5.0 DESCRIPTION OF WATERSHED

5.1 Existing Conditions Topography

There is an active mining/ grading operation on the project site and the operation has altered the surface topography and drainage patterns. For the purpose of this study, we will use the original topography of the site before the mining operation altered the scenery. This insures that no diversion of flow will happen.

There are three distinct basins on site. Basin 1 is a hilly area that runoff is intercepted by Antelope road and drains to south to an existing public stormdrain that was built as part of the improvement Track No.08-327804. Basin 2 sheet flows to I-215 NB On-ramp, and intercepted by a concrete ditch and directed to an existing open channel adjacent to I-215.

Please note that there are active projects directly east. The mentioned active projects are known as “The Vineyard” PM 36493 and “Costco” TPM 37511.

Attachment D, found later in this report, contains the natural condition Watershed Topographic Map.

5.2 Post-Development Project Topography

At 100 percent buildout, the site will be more than 80 percent impervious. When brought to grade the site will become much flatter than its natural condition. At 100 percent buildout, all impervious areas will drain to onsite bioretention basins before eventually existing the project site. The proposed grades & improvements are such that the drainage patterns to the 1 POC are maintained. There are three distinct basins on site. Basin 1 (Parcel 2, 3, 4 and 5) drains to BMP-1 from the 2/3 of the site draining north to the south. Basin 2 (Parcel 1) drains to BMP-2 to the north of the site, Basin 3 (Parcel 6) located on southeast of the site drains to BMP-3. All the impervious area are directed to BMPs and directed to an existing public stormdrain that was built as part of the improvement Track No.08-327804.

6.0 METHODOLOGY

This study complies with the April 1978 Riverside County Flood Control & Water Conservation District Hydrology

6.1 Hydrology Software

The "Rational" module of the CIVILCADD/CIVIL DESIGN engineering software version 9.0 was use hereon. See Attachment H.

6.2 Hydraulics Software

Hydroflow Storm Sewers Extension for Autodesk/Autocad./Civil3D will be used to analyze and size private storm drain pipes.

8.0 CALCULATIONS

8.1 Analyze 100 Year 1 Hour Storm using The Rational Method

Peaks flows for both the pre-developed and post developed conditions using Civil and the rational method. Peak flows were established at POC 1. Soil type D was used based on USDA Natural Water Resource Conservation Service website. Intensity-Duration data was taken for Plate D-4.1 and the post developed land use assumes commercial development. Table 4 below summarizes the results. Detailed CivilD input-output data can be found in Attachment F of this report.

SUMMARY OF THE 100 YEAR 1 HOUR STORM @ POC 1 - AMC=2			
	PRE-DEVPT PEAK RUNOFF	POST-DEVPT PEAK RUNOFF	UNITS
Q	29.64	27.42	CFS
A	13.64	13.96	ACRES
T_C	15.60	16	MINUTES

9 SUMMARY

The hydrologic analysis indicated that post developed runoff will not exceed pre-developed runoff, even with the big increase in impervious areas. This will insure no negative impacts to downstream drainage systems, or properties as a result of this development.

10.0 REFERENCES

Riverside County Flood Control Water Conservation District, Flood Control Section, April 1978 Hydrology Manual.

Merritt, S.F., 1983. Standard Handbook for Civil Engineers. Third Edition, Mc Graw – Hill 21-29.

Minton, G.R. 2005.Revisiting Design Criteria for Stormwater Treatment Systems. Stormwater Magazine March/April 2005 Issue.

11.0 DECLARATION OF RESPONSIBLE CHARGE

I hereby declare that I am the engineer of work for this project. That I have exercised responsible charge over the design of the project as defined in section 6703 of the business and professions codes, and that the design is consistent with current design.

I understand that the check of the project drawings and specifications by the Riverside County is confined to a review only and does not relieve me, as engineer of work, of my responsibilities for project design.

ENGINEER OF WORK
Excel Engineering
440 State Place
Escondido, CA 92029
Tel – (760)745-8118
Fax – (760)745-1890

Project Number: 17-053

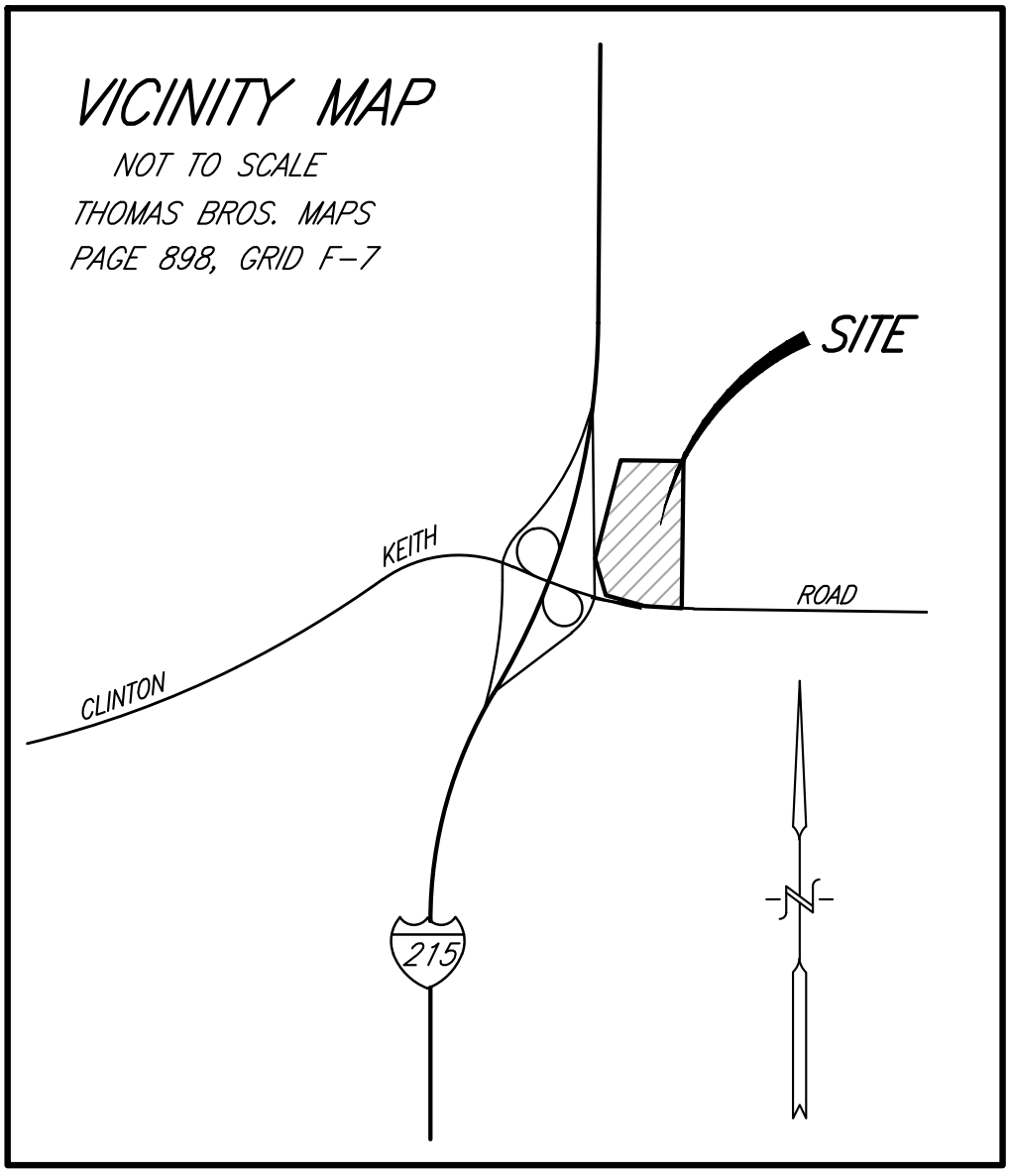
_____ _____

Robert D. Dentino, RCE 45629 Date
Registration Expire: December 31, 2018

ATTACHMENTS

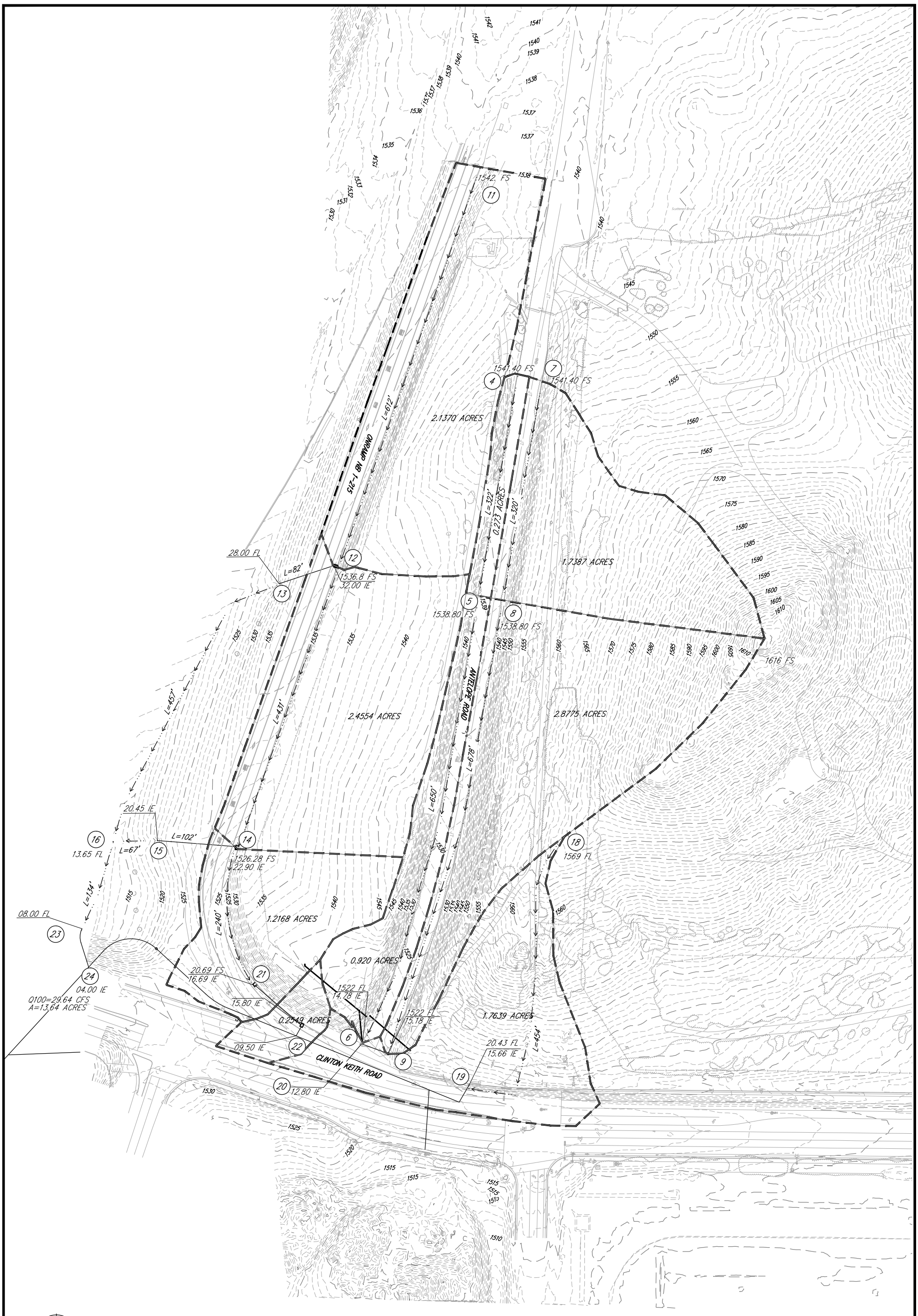
ATTACHMENT A

VICINITY MAP



ATTACHMENT B

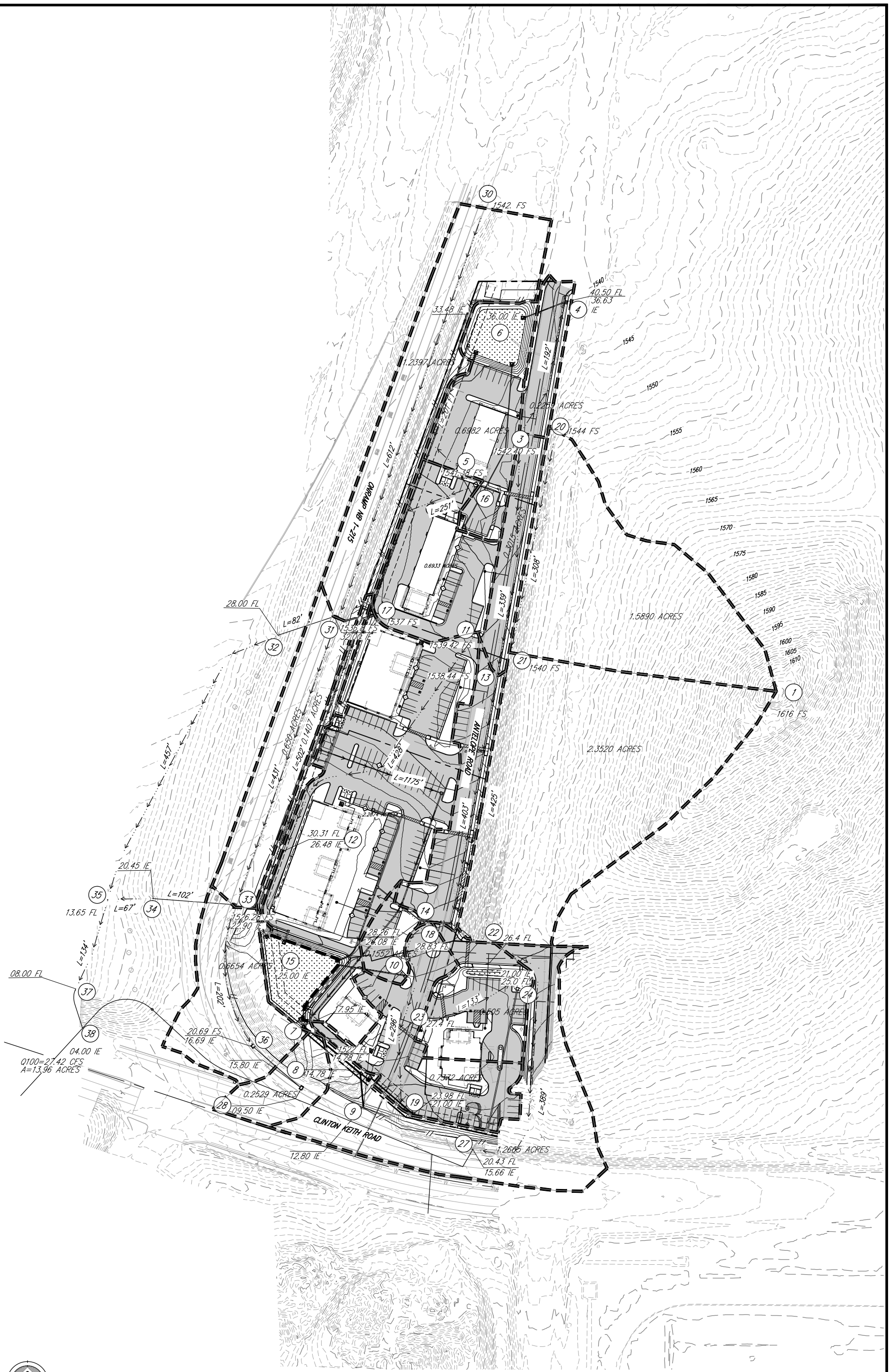
SITE MAP



CURCI

PRE-DEVELOPMENT CONDITION MAP

V:\17\17053\engineering\TM\CURRENT\STORM\HYD\RATIONAL\17053 pre-dev hydrology map.dwg 6/11/2018 7:38 AM ORIGINAL PLOT SIZE: ----



V:\17\17053\engineering\TM1\CURRENT\STORM\HYDRO\RATIONAL\post-dev hydrology map.dwg 6/9/2018 11:36 AM ORIGINAL PLOT SIZE: ----

ATTACHMENT C

FIGURES & TABLES FROM THE RCFC & WCD HYDROLOGY MANUAL

RAINFALL INTENSITY—INCHES PER HOUR

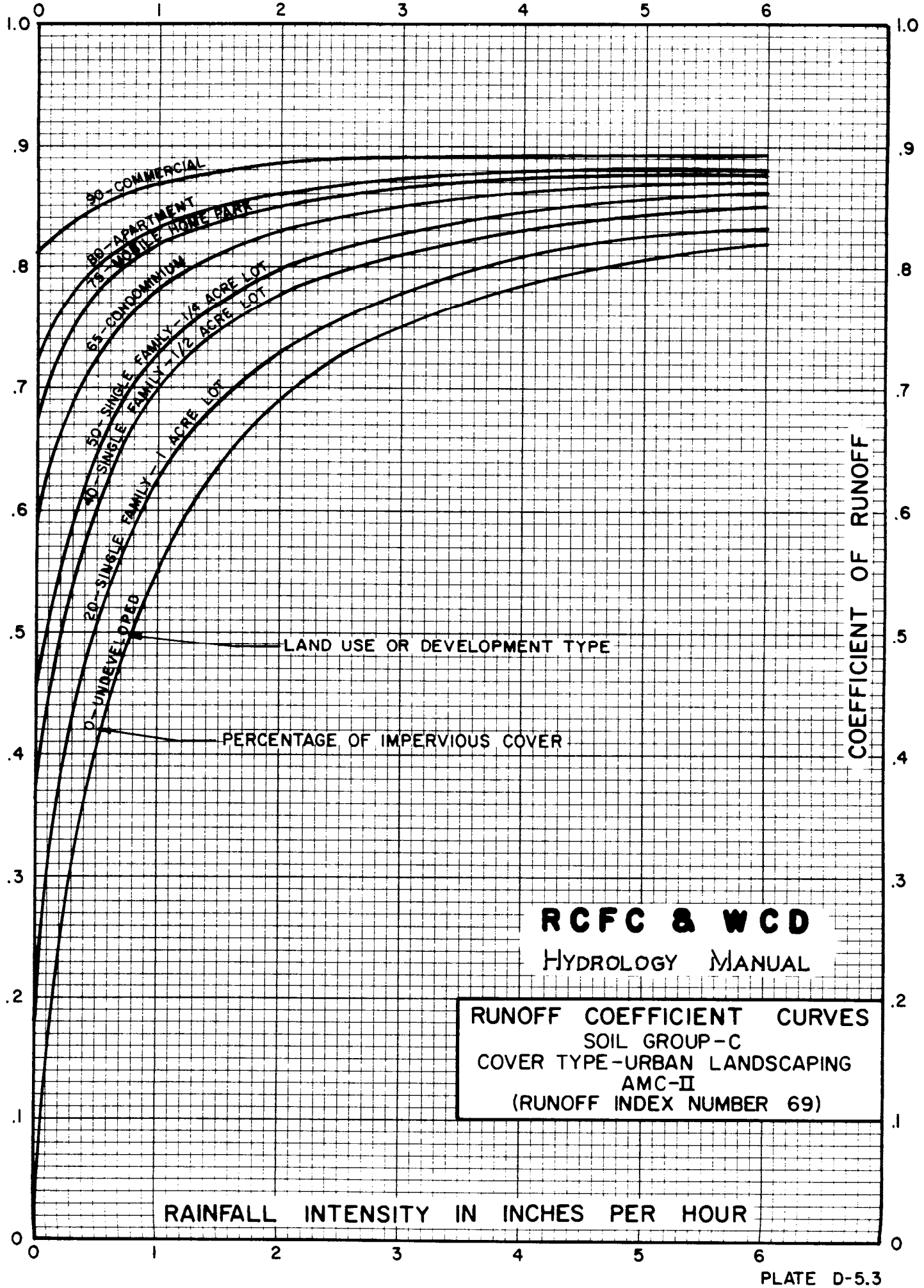
MIRA LOMA			MURRIETA - TEMECULA & RANCHO CALIFORNIA			NORCO			PALM SPRINGS			PERRIS VALLEY		
DURATION MINUTES	FREQUENCY		DURATION MINUTES	FREQUENCY		DURATION MINUTES	FREQUENCY		DURATION MINUTES	FREQUENCY		DURATION MINUTES	FREQUENCY	
	10 YEAR	100 YEAR		10 YEAR	100 YEAR		10 YEAR	100 YEAR		10 YEAR	100 YEAR		10 YEAR	100 YEAR
5	2.84	4.48	5	3.45	5.10	5	2.77	4.16	5	4.23	6.76	5	2.64	3.78
6	2.58	4.07	6	3.12	4.61	6	2.53	3.79	6	3.80	6.08	6	2.41	3.46
7	2.37	3.75	7	2.87	4.24	7	2.34	3.51	7	3.48	5.56	7	2.24	3.21
8	2.21	3.49	8	2.67	3.94	8	2.19	3.29	8	3.22	5.15	8	2.09	3.01
9	2.08	3.28	9	2.50	3.69	9	2.07	3.10	9	3.01	4.81	9	1.98	2.84
10	1.96	3.10	10	2.36	3.48	10	1.96	2.94	10	2.83	4.52	10	1.88	2.69
11	1.87	2.95	11	2.24	3.30	11	1.87	2.80	11	2.67	4.28	11	1.79	2.57
12	1.78	2.82	12	2.13	3.15	12	1.79	2.68	12	2.54	4.07	12	1.72	2.46
13	1.71	2.70	13	2.04	3.01	13	1.72	2.58	13	2.43	3.88	13	1.65	2.37
14	1.64	2.60	14	1.96	2.89	14	1.66	2.48	14	2.33	3.72	14	1.59	2.29
15	1.58	2.50	15	1.89	2.79	15	1.60	2.40	15	2.23	3.58	15	1.54	2.21
16	1.53	2.42	16	1.82	2.69	16	1.55	2.32	16	2.15	3.44	16	1.49	2.14
17	1.48	2.34	17	1.76	2.60	17	1.50	2.25	17	2.08	3.32	17	1.45	2.08
18	1.44	2.27	18	1.71	2.52	18	1.46	2.19	18	2.01	3.22	18	1.41	2.02
19	1.40	2.21	19	1.66	2.45	19	1.42	2.13	19	1.95	3.12	19	1.37	1.97
20	1.36	2.15	20	1.61	2.38	20	1.39	2.08	20	1.89	3.03	20	1.34	1.92
22	1.29	2.04	22	1.53	2.26	22	1.32	1.98	22	1.79	2.86	22	1.28	1.83
24	1.24	1.95	24	1.46	2.15	24	1.26	1.90	24	1.70	2.72	24	1.22	1.75
26	1.18	1.87	26	1.39	2.06	26	1.22	1.82	26	1.62	2.60	26	1.18	1.69
28	1.14	1.80	28	1.34	1.98	28	1.17	1.76	28	1.56	2.49	28	1.13	1.63
30	1.10	1.73	30	1.29	1.90	30	1.13	1.70	30	1.49	2.39	30	1.10	1.57
32	1.06	1.67	32	1.24	1.84	32	1.10	1.64	32	1.44	2.30	32	1.06	1.52
34	1.03	1.62	34	1.20	1.78	34	1.06	1.59	34	1.39	2.22	34	1.03	1.48
36	1.00	1.57	36	1.17	1.72	36	1.03	1.55	36	1.34	2.15	36	1.00	1.44
38	.97	1.53	38	1.13	1.67	38	1.01	1.51	38	1.30	2.09	38	.98	1.40
40	.94	1.49	40	1.10	1.62	40	.98	1.47	40	1.27	2.02	40	.95	1.37
45	.89	1.40	45	1.03	1.52	45	.92	1.39	45	1.18	1.89	45	.90	1.29
50	.84	1.32	50	.97	1.44	50	.88	1.31	50	1.11	1.78	50	.85	1.22
55	.80	1.26	55	.92	1.36	55	.84	1.25	55	1.05	1.68	55	.81	1.17
60	.76	1.20	60	.88	1.30	60	.80	1.20	60	1.00	1.60	60	.78	1.12
65	.73	1.15	65	.84	1.24	65	.77	1.15	65	.95	1.53	65	.75	1.08
70	.70	1.11	70	.81	1.19	70	.74	1.11	70	.91	1.46	70	.72	1.04
75	.68	1.07	75	.78	1.15	75	.72	1.07	75	.88	1.41	75	.70	1.00
80	.65	1.03	80	.75	1.11	80	.69	1.04	80	.85	1.35	80	.68	.97
85	.63	1.00	85	.73	1.07	85	.67	1.01	85	.82	1.31	85	.66	.94
SLOPE = .530			SLOPE = .550			SLOPE = .500			SLOPE = .580			SLOPE = .490		

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HYDROLOGY MANUAL

STANDARD INTENSITY-DURATION CURVES DATA

PLATE D-4.1 (4 of 6)



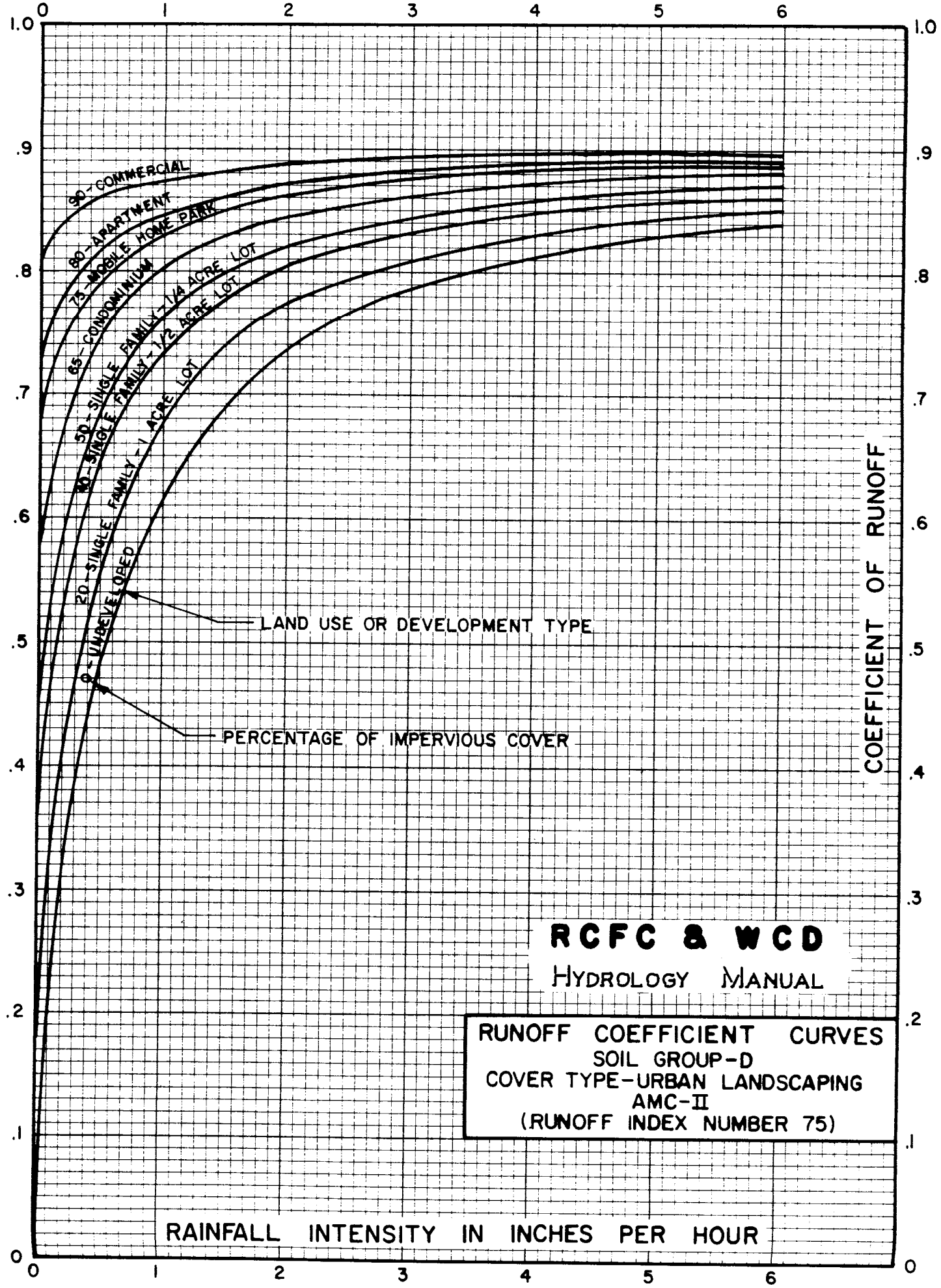
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HYDROLOGY MANUAL

RUNOFF COEFFICIENT CURVES

SOIL GROUP-C
COVER TYPE-URBAN LANDSCAPING
AMC-II
(RUNOFF INDEX NUMBER 69)

PLATE D-5.3

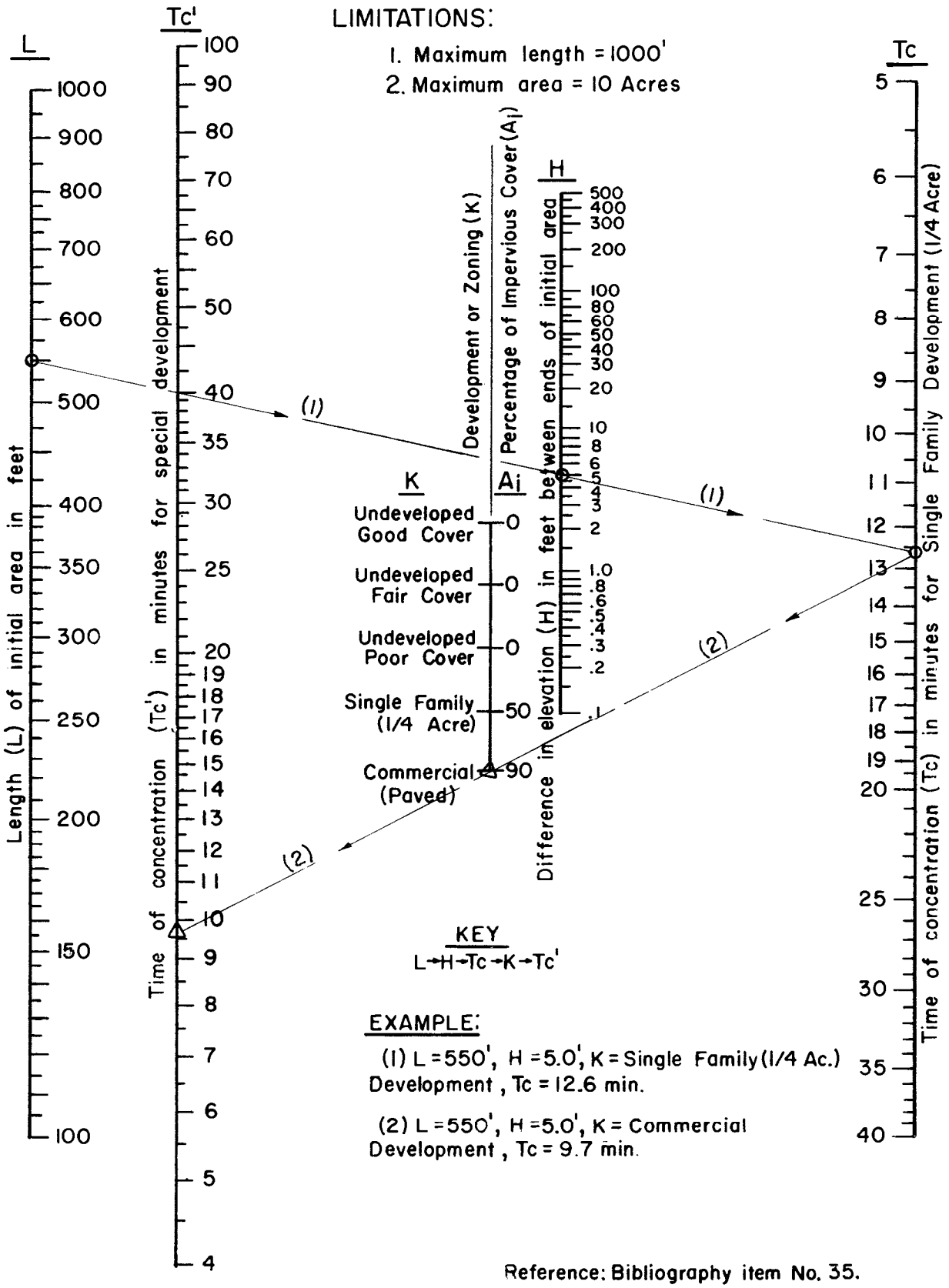


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HYDROLOGY MANUAL

RUNOFF COEFFICIENT CURVES
SOIL GROUP-D
COVER TYPE-URBAN LANDSCAPING
AMC-II
(RUNOFF INDEX NUMBER 75)

PLATE D-5.4

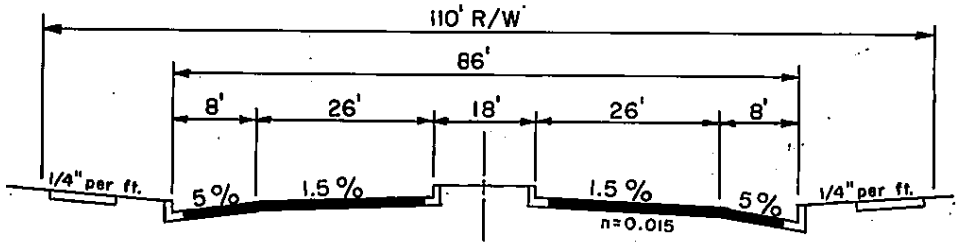


Reference: Bibliography item No. 35.

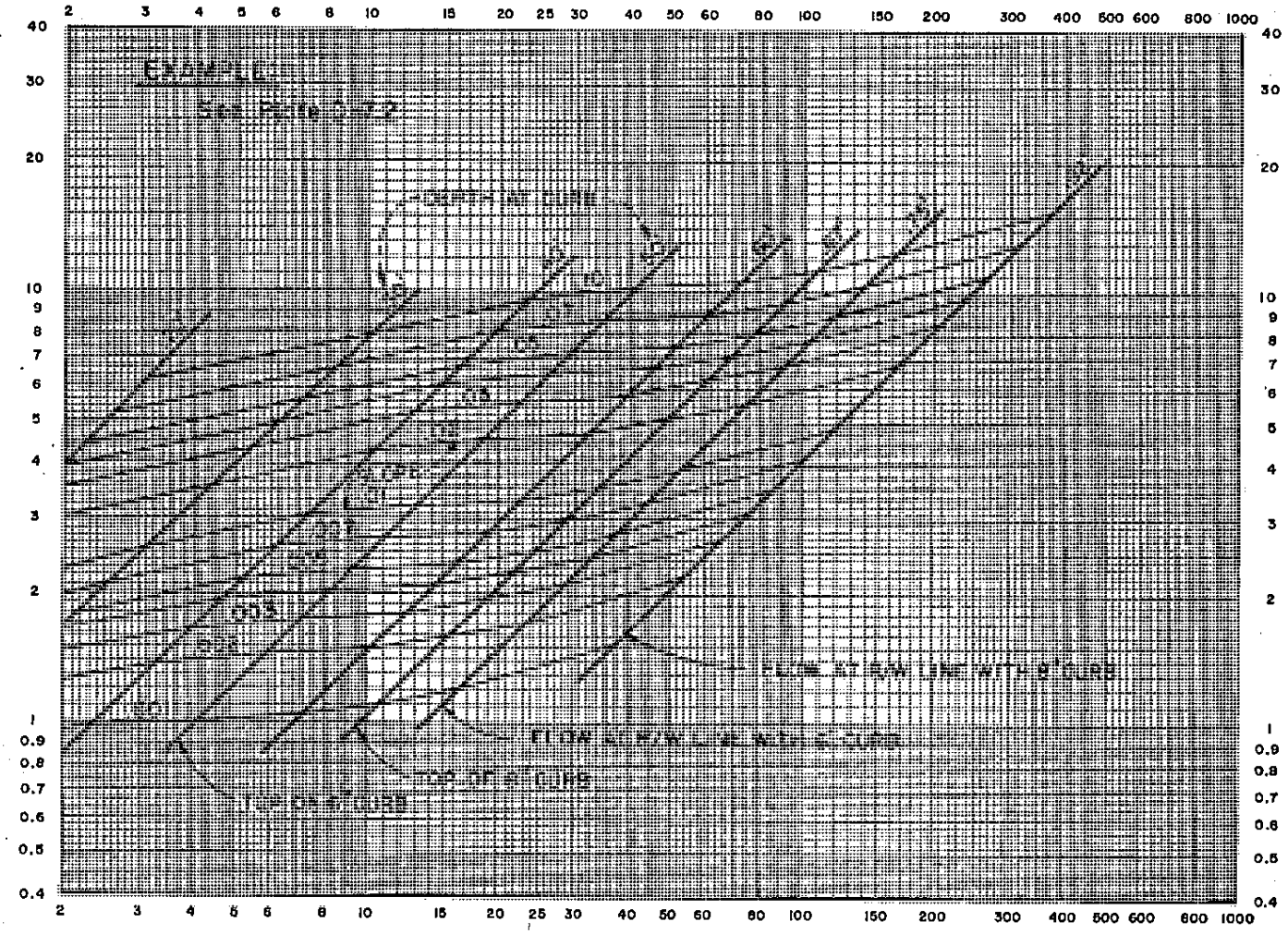
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HYDROLOGY MANUAL

TIME OF CONCENTRATION FOR INITIAL SUBAREA

PLATE D-3



TYPICAL SECTION



(TOTAL FLOW IN STREET)

NOTE:

Flow does not top the crown of this section until d_w = 1.45 feet (6 inch curb).

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HYDROLOGY MANUAL

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

VELOCITY DISCHARGE CURVES
COUNTY STANDARD No. 100
86' ROADWAY 6" & 8" CURBS

REVISED	APPROVED: CHIEF ENGINEER R.E. NO. 18855	DRAWN BY: R.A.S.
	DATE	CHECKED BY: R.V.P.-R.A.N.
		DATE DRAWN: JAN. 71
		SHEET No.
		DR. No

PLATE D-7.1

RUNOFF INDEX NUMBERS OF HYDROLOGIC SOIL-COVER COMPLEXES FOR PERVIOUS AREAS-AMC II

Cover Type (3)	Quality of Cover (2)	Soil Group A	B	C	D
NATURAL COVERS -					
Barren (Rockland, eroded and graded land)		78	86	91	93
Chaparrel, Broadleaf (Manzonita, ceanothus and scrub oak)	Poor	53	70	80	85
	Fair	40	63	75	81
	Good	31	57	71	78
Chaparrel, Narrowleaf (Chamise and redshank)	Poor	71	82	88	91
	Fair	55	72	81	86
Grass, Annual or Perennial	Poor	67	78	86	89
	Fair	50	69	79	84
	Good	38	61	74	80
Meadows or Cienegas (Areas with seasonally high water table, principal vegetation is sod forming grass)	Poor	63	77	85	88
	Fair	51	70	80	84
	Good	30	58	72	78
Open Brush (Soft wood shrubs - buckwheat, sage, etc.)	Poor	62	76	84	88
	Fair	46	66	77	83
	Good	41	63	75	81
Woodland (Coniferous or broadleaf trees predominate. Canopy density is at least 50 percent)	Poor	45	66	77	83
	Fair	36	60	73	79
	Good	28	55	70	77
Woodland, Grass (Coniferous or broadleaf trees with canopy density from 20 to 50 percent)	Poor	57	73	82	86
	Fair	44	65	77	82
	Good	33	58	72	79
URBAN COVERS -					
Residential or Commercial Landscaping (Lawn, shrubs, etc.)	Good	32	56	69	75
Turf (Irrigated and mowed grass)	Poor	58	74	83	87
	Fair	44	65	77	82
	Good	33	58	72	79
AGRICULTURAL COVERS -					
Fallow (Land plowed but not tilled or seeded)		76	85	90	92

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HYDROLOGY MANUAL

RUNOFF INDEX NUMBERS FOR PERVIOUS AREA

PLATE D-5.5 (1 of 2)

RUNOFF INDEX NUMBERS OF HYDROLOGIC SOIL-COVER COMPLEXES FOR PERVIOUS AREAS-AMC II

Cover Type (3)	Quality of Cover (2)	Soil Group A	B	C	D
AGRICULTURAL COVERS (cont.) -					
Legumes, Close Seeded (Alfalfa, sweetclover, timothy, etc.)	Poor	66	77	85	89
	Good	58	72	81	85
Orchards, Deciduous (Apples, apricots, pears, walnuts, etc.)		See Note 4			
Orchards, Evergreen (Citrus, avocados, etc.)	Poor	57	73	82	86
	Fair	44	65	77	82
	Good	33	58	72	79
Pasture, Dryland (Annual grasses)	Poor	67	78	86	89
	Fair	50	69	79	84
	Good	38	61	74	80
Pasture, Irrigated (Legumes and perennial grass)	Poor	58	74	83	87
	Fair	44	65	77	82
	Good	33	58	72	79
Row Crops (Field crops - tomatoes, sugar beets, etc.)	Poor	72	81	88	91
	Good	67	78	85	89
Small Grain (Wheat, oats, barley, etc.)	Poor	65	76	84	88
	Good	63	75	83	87
Vineyard		See Note 4			

Notes:

1. All runoff index (RI) numbers are for Antecedent Moisture Condition (AMC) II.

2. Quality of cover definitions:
   Poor-Heavily grazed or regularly burned areas. Less than 50 percent of the ground surface is protected by plant cover or brush and tree canopy.
   Fair-Moderate cover with 50 percent to 75 percent of the ground surface protected.
   Good-Heavy or dense cover with more than 75 percent of the ground surface protected.

3. See Plate C-2 for a detailed description of cover types.

4. Use runoff index numbers based on ground cover type. See discussion under "Cover Type Descriptions" on Plate C-2.

5. Reference Bibliography item 17.

ACTUAL IMPERVIOUS COVER

Land Use (1)	Range-Percent	Recommended Value For Average Conditions-Percent(2)
Natural or Agriculture	0 - 10	0
Single Family Residential: (3)		
40,000 S. F. (1 Acre) Lots	10 - 25	20
20,000 S. F. (½ Acre) Lots	30 - 45	40
7,200 - 10,000 S. F. Lots	45 - 55	50
Multiple Family Residential:		
Condominiums	45 - 70	65
Apartments	65 - 90	80
Mobile Home Park	60 - 85	75
Commercial, Downtown Business or Industrial	80 -100	90

Notes:

1. Land use should be based on ultimate development of the watershed. Long range master plans for the County and incorporated cities should be reviewed to insure reasonable land use assumptions.

2. Recommended values are based on average conditions which may not apply to a particular study area. The percentage impervious may vary greatly even on comparable sized lots due to differences in dwelling size, improvements, etc. Landscape practices should also be considered as it is common in some areas to use ornamental gravels underlain by impervious plastic materials in place of lawns and shrubs. A field investigation of a study area should always be made, and a review of aerial photos, where available may assist in estimating the percentage of impervious cover in developed areas.

3. For typical horse ranch subdivisions increase impervious area 5 percent over the values recommended in the table above.

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IMPERVIOUS COVER FOR DEVELOPED AREAS

PLATE D-5.6

RUNOFF COEFFICIENT CURVE DATA

The data in the following tables may be used to develop runoff coefficient (C) curves for any combination of runoff index (RI) number and antecedent mositure condition (AMC). For an RI number with an AMC of II (from Plate D-5.5) enter the tables on the following pages and plot the "C" curve data directly on Plate D-5.8. "C" curve data is given for even RI numbers only, but values may easily be interpolated for odd RI numbers.

For an AMC of I or III enter the tabulation on this page with the RI for AMC II, and read the appropriate RI for AMC I or III. Use this revised RI to enter the tables on the following pages to determine "C". For example if RI = 40 for AMC II, then RI = 22 for AMC I and RI = 60 for AMC III.

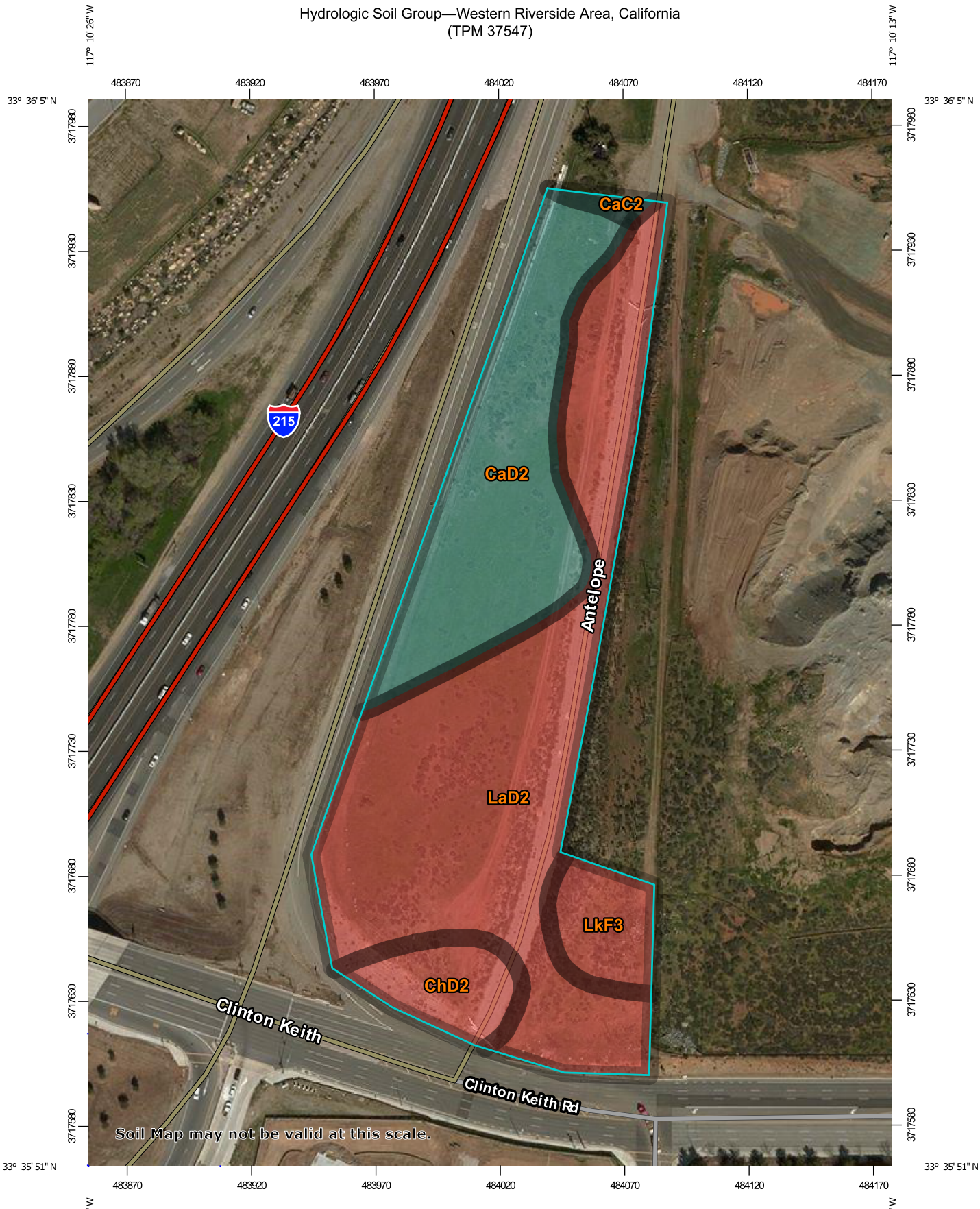
AMC ADJUSTMENT RELATIONSHIPS

RI FOR AMC II	RI FOR OTHER AMC CONDITIONS: AMC I	AMC III	RI FOR AMC II	RI FOR OTHER AMC CONDITIONS: AMC I	AMC III
10	--	22	55	35	74
11	--	24	56	36	75
12	--	25	57	37	75
13	--	27	58	38	76
14	--	28	59	39	77
15	--	30	60	40	78
16	--	31	61	41	78
17	--	33	62	42	79
18	--	34	63	43	80
19	--	36	64	44	81
20	--	37	65	45	82
21	10	38	66	46	82
22	10	39	67	47	83
23	11	41	68	48	84
24	11	42	69	50	84
25	12	43	70	51	85
26	12	44	71	52	86
27	13	46	72	53	86
28	14	47	73	54	87
29	14	49	74	55	88
30	15	50	75	57	88
31	16	51	76	58	89
32	16	52	77	59	89
33	17	53	78	60	90
34	18	54	79	62	91
35	18	55	80	63	91
36	19	56	81	64	92
37	20	57	82	66	92
38	21	58	83	67	93
39	21	59	84	68	93
40	22	60	85	70	94
41	23	61	86	72	94
42	24	62	87	73	95
43	25	63	88	75	95
44	25	64	89	76	96
45	26	65	90	78	96
46	27	66	91	80	97
47	28	67	92	81	97
48	29	68	93	83	98
49	30	69	94	85	98
50	31	70	95	87	98
51	31	70	96	89	99
52	32	71	97	91	99
53	33	72	98	94	99
54	34	73	99	97	--

RCFC & WCD
HYDROLOGY MANUAL

RUNOFF COEFFICIENT CURVE DATA

Hydrologic Soil Group—Western Riverside Area, California
(TPM 37547)



Map Scale: 1:2,080 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 30 60 120 180

Feet: 0 100 200 400 600

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 11N WGS84

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

Soil Rating Polygons

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Lines

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Points

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Water Features

- Streams and Canals

Transportation

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background

- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Western Riverside Area, California
Survey Area Data: Version 10, Sep 12, 2017

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 24, 2015—Feb 26, 2015

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
CaC2	Cajalco fine sandy loam, 2 to 8 percent slopes, eroded	C	0.0	0.6%
CaD2	Cajalco fine sandy loam, 8 to 15 percent slopes, eroded	C	2.1	28.7%
ChD2	Cieneba sandy loam, 8 to 15 percent slopes, eroded	D	0.5	6.8%
LaD2	Las Posas loam, 8 to 15 percent slopes, eroded	D	4.3	57.7%
LkF3	Las Posas rocky loam, 15 to 50 percent slopes, severely eroded	D	0.5	6.2%
Totals for Area of Interest			**7.4**	**100.0%**

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition

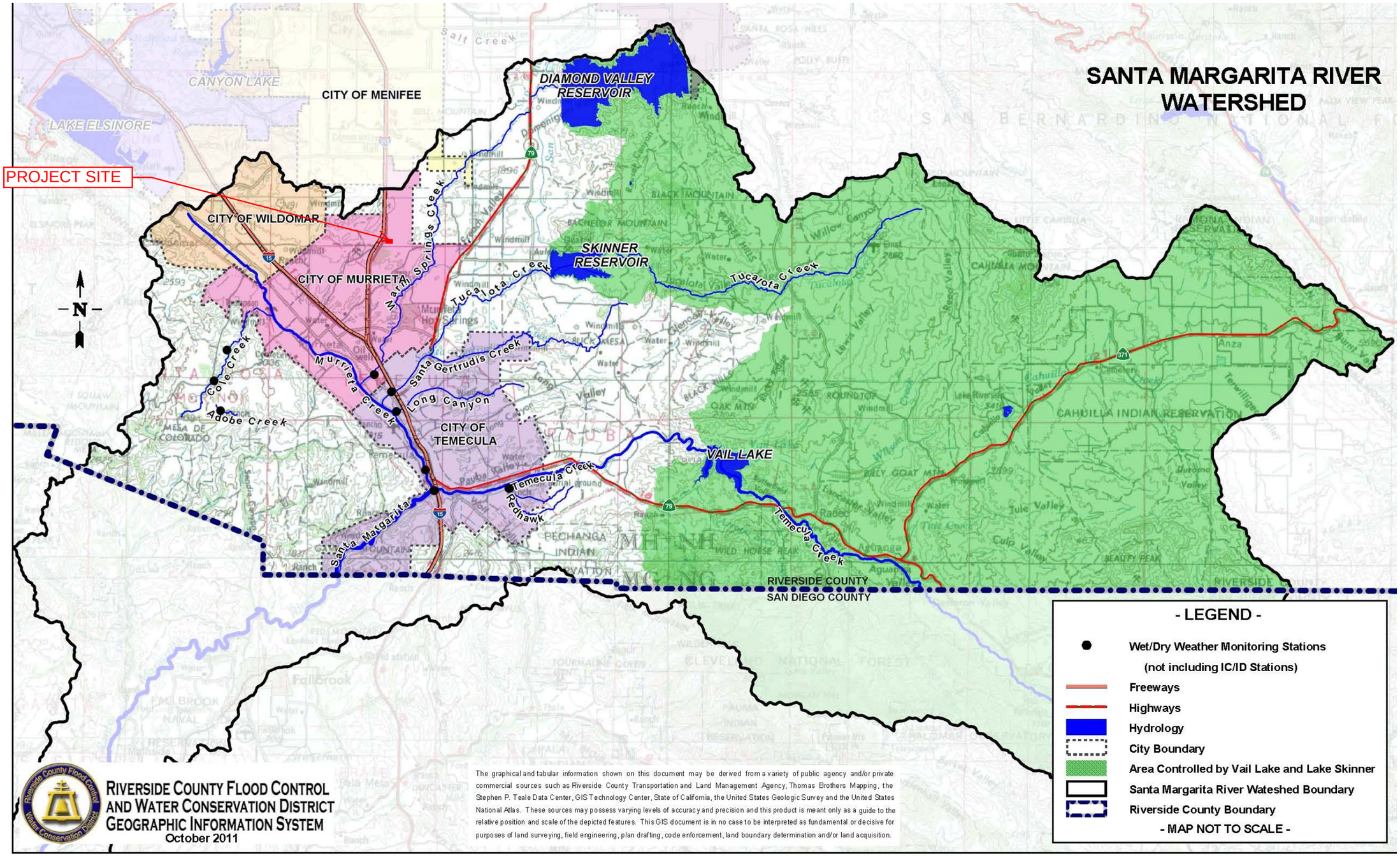
Component Percent Cutoff: None Specified

Tie-break Rule: Higher

ATTACHMENT D

WATERSHED INFORMATION- TOPOGRAPHIC MAPS

Figure 2. Watershed Map of Upper Santa Margarita River



ATTACHMENT E

RATIONAL METHOD PRE & POST DEVELOPED 100 YEAR, I HOUR STORM ANALYSIS FOR STORM DRAIN AND PEAK FLOWS

Riverside County Rational Hydrology Program

CIVILCADD/CIVILDESIGN Engineering Software,(c) 1989 - 2014 Version 9.0
Rational Hydrology Study Date: 06/08/18 File:17053PREPOC1.out

---

PRE-DEVELOPMENT CALCS - POC-1
100 YEAR STORM EVENT - RATIONAL METHOD
17053 CURCII CK-17
FILENAME: 17053PREPOC1.RRV

********* Hydrology Study Control Information **********
English (in-lb) Units used in input data file

Program License Serial Number 6332

Rational Method Hydrology Program based on
Riverside County Flood Control & Water Conservation District
1978 hydrology manual

Storm event (year) = 100.00 Antecedent Moisture Condition = 2

Standard intensity-duration curves data (Plate D-4.1)
For the [Murrieta,Tmc,Rnch CaNorco] area used.
10 year storm 10 minute intensity = 2.360(In/Hr)
10 year storm 60 minute intensity = 0.880(In/Hr)
100 year storm 10 minute intensity = 3.480(In/Hr)
100 year storm 60 minute intensity = 1.300(In/Hr)

Storm event year = 100.0
Calculated rainfall intensity data:
1 hour intensity = 1.300(In/Hr)
Slope of intensity duration curve = 0.5500

++
Process from Point/Station 4.000 to Point/Station 5.000
**** INITIAL AREA EVALUATION ****

Initial area flow distance = 322.000(Ft.)
Top (of initial area) elevation = 41.400(Ft.)
Bottom (of initial area) elevation = 38.800(Ft.)
Difference in elevation = 2.600(Ft.)
Slope = 0.00807 s(percent)= 0.81
TC = k(0.390)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration = 10.299 min.
Rainfall intensity = 3.427(In/Hr) for a 100.0 year storm
SINGLE FAMILY (1/4 Acre Lot)
Runoff Coefficient = 0.848
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 1.000
RI index for soil(AMC 2) = 75.00
Pervious area fraction = 0.500; Impervious fraction = 0.500
Initial subarea runoff = 0.794(CFS)
Total initial stream area = 0.273(Ac.)
Pervious area fraction = 0.500

++
Process from Point/Station 5.000 to Point/Station 6.000
**** IRREGULAR CHANNEL FLOW TRAVEL TIME ****

Estimated mean flow rate at midpoint of channel = 1.935(CFS)
Depth of flow = 0.150(Ft.), Average velocity = 3.810(Ft/s)
******* Irregular Channel Data **********

Information entered for subchannel number 1 :

Point number	'X' coordinate	'Y' coordinate
1	0.00	0.50
2	0.00	0.00
3	18.00	0.40

```
Manning's 'N' friction factor =   0.011
-----------------------------------------------------------------
Sub-Channel flow  =      1.935(CFS)
  '     '       flow top width =      6.762(Ft.)
  '     '    velocity=    3.810(Ft/s)
  '     '       area =      0.508(Sq.Ft)
  '     '       Froude number =     2.450

Upstream point elevation =    38.800(Ft.)
Downstream point elevation =    22.000(Ft.)
Flow length =   650.000(Ft.)
Travel time  =    2.84 min.
Time of concentration =   13.14 min.
Depth of flow =   0.150(Ft.)
Average velocity =   3.810(Ft/s)
Total irregular channel flow =     1.935(CFS)
Irregular channel normal depth above invert elev. =   0.150(Ft.)
Average velocity of channel(s) =   3.810(Ft/s)
 Adding area flow to channel
SINGLE FAMILY (1 Acre Lot)
Runoff Coefficient = 0.807
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 1.000
RI index for soil(AMC 2)  =  75.00
Pervious area fraction =  0.800; Impervious fraction =  0.200
Rainfall intensity =      2.997(In/Hr) for a   100.0 year storm
Subarea runoff =      2.225(CFS) for      0.920(Ac.)
Total runoff =      3.019(CFS)        Total area =       1.193(Ac.)
Depth of flow =   0.178(Ft.), Average velocity =   4.258(Ft/s)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        6.000 to Point/Station        6.000
**** CONFLUENCE OF MINOR STREAMS ****
________________________________________________________________________
Along Main Stream number: 1 in normal stream number 1
Stream flow area =      1.193(Ac.)
Runoff from this stream =      3.019(CFS)
Time of concentration =   13.14 min.
Rainfall intensity =     2.997(In/Hr)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        7.000 to Point/Station        8.000
**** INITIAL AREA EVALUATION ****
________________________________________________________________________
Initial area flow distance =   320.000(Ft.)
Top (of initial area) elevation =    41.400(Ft.)
Bottom (of initial area) elevation =    38.800(Ft.)
Difference in elevation =     2.600(Ft.)
Slope =    0.00813  s(percent)=       0.81
TC = k(0.480)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration =   12.628 min.
Rainfall intensity =      3.063(In/Hr) for a   100.0 year storm
SINGLE FAMILY (1 Acre Lot)
Runoff Coefficient = 0.809
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 1.000
RI index for soil(AMC 2)  =  75.00
Pervious area fraction =  0.800; Impervious fraction =  0.200
Initial subarea runoff =      4.308(CFS)
Total initial stream area =        1.739(Ac.)
Pervious area fraction = 0.800


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        8.000 to Point/Station        9.000
```

```
**** IRREGULAR CHANNEL FLOW TRAVEL TIME ****
_____________________________________________________________________
Estimated mean flow rate at midpoint of channel =      7.591(CFS)
Depth of flow =   0.253(Ft.), Average velocity =   5.278(Ft/s)
       ******* Irregular Channel Data ***********
-----------------------------------------------------------------
Information entered for subchannel number 1 :
Point number      'X' coordinate     'Y' coordinate
       1              0.00              0.50
       2              0.00              0.00
       3             18.00              0.40
Manning's 'N' friction factor =   0.011
-----------------------------------------------------------------
Sub-Channel flow  =      7.591(CFS)
  '     '       flow top width =     11.378(Ft.)
  '     '    velocity=    5.278(Ft/s)
  '     '       area =      1.438(Sq.Ft)
  '     '       Froude number =     2.616

Upstream point elevation =    38.800(Ft.)
Downstream point elevation =    22.000(Ft.)
Flow length =   678.000(Ft.)
Travel time  =    2.14 min.
Time of concentration =   14.77 min.
Depth of flow =   0.253(Ft.)
Average velocity =   5.278(Ft/s)
Total irregular channel flow =     7.591(CFS)
Irregular channel normal depth above invert elev. =   0.253(Ft.)
Average velocity of channel(s) =   5.278(Ft/s)
 Adding area flow to channel
SINGLE FAMILY (1 Acre Lot)
Runoff Coefficient = 0.802
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 1.000
RI index for soil(AMC 2)  =  75.00
Pervious area fraction =  0.800; Impervious fraction =  0.200
Rainfall intensity =      2.810(In/Hr) for a   100.0 year storm
Subarea runoff =      6.482(CFS) for      2.877(Ac.)
Total runoff =     10.791(CFS)        Total area =       4.616(Ac.)
Depth of flow =   0.288(Ft.), Average velocity =   5.763(Ft/s)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        9.000 to Point/Station        6.000
**** PIPEFLOW TRAVEL TIME (User specified size) ****
_____________________________________________________________________
Upstream point/station elevation =    15.180(Ft.)
Downstream point/station elevation =    14.780(Ft.)
Pipe length  =    38.50(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =    10.791(CFS)
Given pipe size =     18.00(In.)
Calculated individual pipe flow  =    10.791(CFS)
Normal flow depth in pipe =   14.88(In.)
Flow top width inside pipe =   13.62(In.)
Critical Depth =   15.12(In.)
Pipe flow velocity =      6.91(Ft/s)
Travel time through pipe =    0.09 min.
Time of concentration (TC) =    14.86 min.


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        6.000 to Point/Station        6.000
**** CONFLUENCE OF MINOR STREAMS ****
_____________________________________________________________________
Along Main Stream number: 1 in normal stream number 2
Stream flow area =      4.616(Ac.)
Runoff from this stream =     10.791(CFS)
Time of concentration =   14.86 min.
Rainfall intensity =     2.801(In/Hr)
```

```
Summary of stream data:

Stream   Flow rate      TC            Rainfall Intensity
 No.       (CFS)       (min)                (In/Hr)


1        3.019     13.14                2.997
2       10.791     14.86                2.801
Largest stream flow has longer time of concentration
Qp =     10.791 + sum of
          Qb         Ia/Ib
           3.019 *    0.935 =      2.821
Qp =     13.612

Total of 2 streams to confluence:
Flow rates before confluence point:
       3.019      10.791
Area of streams before confluence:
        1.193        4.616
Results of confluence:
Total flow rate =     13.612(CFS)
Time of concentration =    14.862 min.
Effective stream area after confluence =      5.809(Ac.)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        6.000 to Point/Station       20.000
**** PIPEFLOW TRAVEL TIME (User specified size) ****
________________________________________________________________________
Upstream point/station elevation =    14.780(Ft.)
Downstream point/station elevation =    12.800(Ft.)
Pipe length  =    26.00(Ft.)   Manning's N = 0.015
No. of pipes = 1  Required pipe flow  =    13.612(CFS)
Given pipe size =     18.00(In.)
Calculated individual pipe flow  =    13.612(CFS)
Normal flow depth in pipe =    9.45(In.)
Flow top width inside pipe =   17.98(In.)
Critical Depth =   16.44(In.)
Pipe flow velocity =     14.50(Ft/s)
Travel time through pipe =    0.03 min.
Time of concentration (TC) =    14.89 min.


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station       20.000 to Point/Station       20.000
**** CONFLUENCE OF MINOR STREAMS ****
________________________________________________________________________
Along Main Stream number: 1 in normal stream number 1
Stream flow area =      5.809(Ac.)
Runoff from this stream =     13.612(CFS)
Time of concentration =   14.89 min.
Rainfall intensity =     2.798(In/Hr)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station       18.000 to Point/Station       19.000
**** INITIAL AREA EVALUATION ****
________________________________________________________________________
Initial area flow distance =   454.000(Ft.)
Top (of initial area) elevation =    69.000(Ft.)
Bottom (of initial area) elevation =    20.430(Ft.)
Difference in elevation =    48.570(Ft.)
Slope =    0.10698  s(percent)=      10.70
TC = k(0.480)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration =    8.674 min.
Rainfall intensity =      3.766(In/Hr) for a   100.0 year storm
SINGLE FAMILY (1 Acre Lot)
Runoff Coefficient = 0.824
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
```

```
Decimal fraction soil group D = 1.000
RI index for soil(AMC 2)  =  75.00
Pervious area fraction =  0.800; Impervious fraction =  0.200
Initial subarea runoff =      5.474(CFS)
Total initial stream area =        1.764(Ac.)
Pervious area fraction = 0.800


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Process from Point/Station       19.000 to Point/Station       20.000
**** PIPEFLOW TRAVEL TIME (User specified size) ****
______________________________________________________________________________
Upstream point/station elevation =    15.660(Ft.)
Downstream point/station elevation =    12.800(Ft.)
Pipe length  =   199.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =     5.474(CFS)
Given pipe size =     24.00(In.)
Calculated individual pipe flow  =     5.474(CFS)
Normal flow depth in pipe =    7.31(In.)
Flow top width inside pipe =   22.09(In.)
Critical Depth =    9.90(In.)
Pipe flow velocity =      6.76(Ft/s)
Travel time through pipe =    0.49 min.
Time of concentration (TC) =     9.16 min.


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Process from Point/Station       20.000 to Point/Station       20.000
**** CONFLUENCE OF MINOR STREAMS ****
______________________________________________________________________________
Along Main Stream number: 1 in normal stream number 2
Stream flow area =      1.764(Ac.)
Runoff from this stream =      5.474(CFS)
Time of concentration =    9.16 min.
Rainfall intensity =     3.654(In/Hr)
Summary of stream data:

Stream   Flow rate      TC            Rainfall Intensity
 No.       (CFS)       (min)                (In/Hr)


1       13.612     14.89                2.798
2        5.474      9.16                3.654
Largest stream flow has longer time of concentration
Qp =     13.612 + sum of
          Qb         Ia/Ib
           5.474 *    0.766 =      4.192
Qp =     17.803

Total of 2 streams to confluence:
Flow rates before confluence point:
      13.612       5.474
Area of streams before confluence:
        5.809        1.764
Results of confluence:
Total flow rate =     17.803(CFS)
Time of concentration =    14.892 min.
Effective stream area after confluence =      7.573(Ac.)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station       20.000 to Point/Station       22.000
**** PIPEFLOW TRAVEL TIME (User specified size) ****
______________________________________________________________________________
Upstream point/station elevation =    12.800(Ft.)
Downstream point/station elevation =     9.500(Ft.)
Pipe length  =    84.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =    17.803(CFS)
Given pipe size =     24.00(In.)
Calculated individual pipe flow  =    17.803(CFS)
Normal flow depth in pipe =   10.51(In.)
```

```
Flow top width inside pipe =   23.81(In.)
Critical Depth =   18.24(In.)
Pipe flow velocity =     13.45(Ft/s)
Travel time through pipe =    0.10 min.
Time of concentration (TC) =    15.00 min.


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Process from Point/Station       22.000 to Point/Station       22.000
**** CONFLUENCE OF MINOR STREAMS ****
______________________________________________________________________________
Along Main Stream number: 1 in normal stream number 1
Stream flow area =      7.573(Ac.)
Runoff from this stream =     17.803(CFS)
Time of concentration =   15.00 min.
Rainfall intensity =     2.787(In/Hr)


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Process from Point/Station       14.000 to Point/Station       21.000
**** INITIAL AREA EVALUATION ****
______________________________________________________________________________
Initial area flow distance =   240.000(Ft.)
Top (of initial area) elevation =    26.280(Ft.)
Bottom (of initial area) elevation =    20.690(Ft.)
Difference in elevation =     5.590(Ft.)
Slope =    0.02329  s(percent)=       2.33
TC = k(0.480)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration =    9.118 min.
Rainfall intensity =      3.664(In/Hr) for a   100.0 year storm
SINGLE FAMILY (1 Acre Lot)
Runoff Coefficient = 0.822
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 1.000
RI index for soil(AMC 2)  =  75.00
Pervious area fraction =  0.800; Impervious fraction =  0.200
Initial subarea runoff =      3.666(CFS)
Total initial stream area =        1.217(Ac.)
Pervious area fraction = 0.800


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Process from Point/Station       21.000 to Point/Station       22.000
**** PIPEFLOW TRAVEL TIME (User specified size) ****
______________________________________________________________________________
Upstream point/station elevation =    16.690(Ft.)
Downstream point/station elevation =    15.800(Ft.)
Pipe length  =    87.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =     3.666(CFS)
Given pipe size =     18.00(In.)
Calculated individual pipe flow  =     3.666(CFS)
Normal flow depth in pipe =    7.29(In.)
Flow top width inside pipe =   17.67(In.)
Critical Depth =    8.77(In.)
Pipe flow velocity =      5.46(Ft/s)
Travel time through pipe =    0.27 min.
Time of concentration (TC) =     9.38 min.


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Process from Point/Station       21.000 to Point/Station       22.000
**** SUBAREA FLOW ADDITION ****
______________________________________________________________________________
SINGLE FAMILY (1 Acre Lot)
Runoff Coefficient = 0.821
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 1.000
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RI index for soil(AMC 2)  =  75.00
Pervious area fraction =  0.800; Impervious fraction =  0.200
Time of concentration =     9.38 min.
Rainfall intensity =      3.607(In/Hr) for a   100.0 year storm
Subarea runoff =      0.755(CFS) for      0.255(Ac.)
Total runoff =      4.421(CFS)       Total area =       1.472(Ac.)


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Process from Point/Station       22.000 to Point/Station       22.000
**** CONFLUENCE OF MINOR STREAMS ****
______________________________________________________________________________
Along Main Stream number: 1 in normal stream number 2
Stream flow area =      1.472(Ac.)
Runoff from this stream =      4.421(CFS)
Time of concentration =    9.38 min.
Rainfall intensity =     3.607(In/Hr)
Summary of stream data:

Stream   Flow rate      TC            Rainfall Intensity
 No.       (CFS)       (min)                 (In/Hr)


1       17.803     15.00                2.787
2        4.421      9.38                3.607
Largest stream flow has longer time of concentration
Qp =     17.803 + sum of
          Qb         Ia/Ib
           4.421 *    0.773 =      3.416
Qp =     21.220

Total of 2 streams to confluence:
Flow rates before confluence point:
      17.803       4.421
Area of streams before confluence:
        7.573        1.472
Results of confluence:
Total flow rate =     21.220(CFS)
Time of concentration =    14.996 min.
Effective stream area after confluence =      9.045(Ac.)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station       22.000 to Point/Station       24.000
**** PIPEFLOW TRAVEL TIME (User specified size) ****
______________________________________________________________________________
Upstream point/station elevation =     9.500(Ft.)
Downstream point/station elevation =     4.000(Ft.)
Pipe length  =   359.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =    21.220(CFS)
Given pipe size =     30.00(In.)
Calculated individual pipe flow  =    21.220(CFS)
Normal flow depth in pipe =   13.52(In.)
Flow top width inside pipe =   29.85(In.)
Critical Depth =   18.77(In.)
Pipe flow velocity =      9.88(Ft/s)
Travel time through pipe =    0.61 min.
Time of concentration (TC) =    15.60 min.


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Process from Point/Station       24.000 to Point/Station       24.000
**** CONFLUENCE OF MAIN STREAMS ****
______________________________________________________________________________
The following data inside Main Stream is listed:
In Main Stream number: 1
Stream flow area =      9.045(Ac.)
Runoff from this stream =     21.220(CFS)
Time of concentration =   15.60 min.
Rainfall intensity =     2.727(In/Hr)
Program is now starting with Main Stream No. 2
```

```
++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station       11.000 to Point/Station       12.000
**** INITIAL AREA EVALUATION ****
------------------------------------------------------------------------------
Initial area flow distance =   612.000(Ft.)
Top (of initial area) elevation =    42.000(Ft.)
Bottom (of initial area) elevation =    36.800(Ft.)
Difference in elevation =     5.200(Ft.)
Slope =    0.00850  s(percent)=       0.85
TC = k(0.480)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration =   16.222 min.
Rainfall intensity =      2.669(In/Hr) for a   100.0 year storm
SINGLE FAMILY (1 Acre Lot)
Runoff Coefficient = 0.776
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.730
Decimal fraction soil group D = 0.270
RI index for soil(AMC 2)  =  70.62
Pervious area fraction =  0.800; Impervious fraction =  0.200
Initial subarea runoff =      4.427(CFS)
Total initial stream area =        2.137(Ac.)
Pervious area fraction = 0.800


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Process from Point/Station       12.000 to Point/Station       13.000
**** PIPEFLOW TRAVEL TIME (User specified size) ****
------------------------------------------------------------------------------
Upstream point/station elevation =    32.000(Ft.)
Downstream point/station elevation =    28.000(Ft.)
Pipe length  =    82.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =     4.427(CFS)
Given pipe size =     18.00(In.)
Calculated individual pipe flow  =     4.427(CFS)
Normal flow depth in pipe =    5.33(In.)
Flow top width inside pipe =   16.43(In.)
Critical Depth =    9.69(In.)
Pipe flow velocity =     10.11(Ft/s)
Travel time through pipe =    0.14 min.
Time of concentration (TC) =    16.36 min.


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station       13.000 to Point/Station       16.000
**** IMPROVED CHANNEL TRAVEL TIME ****
------------------------------------------------------------------------------
Upstream point elevation =    28.000(Ft.)
Downstream point elevation =    13.650(Ft.)
Channel length thru subarea  =   457.000(Ft.)
Channel base width     =    3.000(Ft.)
Slope or 'Z' of left channel bank =   2.000
Slope or 'Z' of right channel bank =   2.000
Manning's 'N'    = 0.025
Maximum depth of channel  =    4.000(Ft.)
Flow(q) thru subarea =      4.427(CFS)
Depth of flow =   0.297(Ft.), Average velocity =   4.144(Ft/s)
Channel flow top width =    4.189(Ft.)
Flow Velocity =    4.14(Ft/s)
Travel time  =    1.84 min.
Time of concentration =   18.19 min.

Sub-Channel No. 1 Critical depth =      0.375(Ft.)
  '     '       '     Critical flow top width =      4.500(Ft.)
  '     '       '     Critical flow velocity=    3.148(Ft/s)
  '     '       '     Critical flow area =      1.406(Sq.Ft)
```

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Process from Point/Station       16.000 to Point/Station       16.000
**** CONFLUENCE OF MINOR STREAMS ****
____________________________________________________________________________
Along Main Stream number: 2 in normal stream number 1
Stream flow area =      2.137(Ac.)
Runoff from this stream =      4.427(CFS)
Time of concentration =   18.19 min.
Rainfall intensity =     2.506(In/Hr)


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Process from Point/Station       12.000 to Point/Station       14.000
**** INITIAL AREA EVALUATION ****
____________________________________________________________________________
Initial area flow distance =   431.000(Ft.)
Top (of initial area) elevation =    36.800(Ft.)
Bottom (of initial area) elevation =    26.280(Ft.)
Difference in elevation =    10.520(Ft.)
Slope =    0.02441  s(percent)=       2.44
TC = k(0.480)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration =   11.416 min.
Rainfall intensity =      3.238(In/Hr) for a   100.0 year storm
SINGLE FAMILY (1 Acre Lot)
Runoff Coefficient = 0.811
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.100
Decimal fraction soil group D = 0.900
RI index for soil(AMC 2)  =  74.40
Pervious area fraction =  0.800; Impervious fraction =  0.200
Initial subarea runoff =      6.444(CFS)
Total initial stream area =        2.455(Ac.)
Pervious area fraction = 0.800


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Process from Point/Station       14.000 to Point/Station       15.000
**** PIPEFLOW TRAVEL TIME (User specified size) ****
____________________________________________________________________________
Upstream point/station elevation =    22.900(Ft.)
Downstream point/station elevation =    20.450(Ft.)
Pipe length  =   102.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =     6.444(CFS)
Given pipe size =     18.00(In.)
Calculated individual pipe flow  =     6.444(CFS)
Normal flow depth in pipe =    7.88(In.)
Flow top width inside pipe =   17.86(In.)
Critical Depth =   11.77(In.)
Pipe flow velocity =      8.68(Ft/s)
Travel time through pipe =    0.20 min.
Time of concentration (TC) =    11.61 min.


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Process from Point/Station       15.000 to Point/Station       16.000
**** IRREGULAR CHANNEL FLOW TRAVEL TIME ****
____________________________________________________________________________
Depth of flow =   0.141(Ft.), Average velocity =   3.234(Ft/s)
       ******* Irregular Channel Data **********
------------------------------------------------------------------
Information entered for subchannel number 1 :
Point number      'X' coordinate     'Y' coordinate
       1              0.00              1.00
       2            100.00              0.00
       3            200.00              1.00
Manning's 'N' friction factor =   0.025
------------------------------------------------------------------
Sub-Channel flow  =      6.444(CFS)
  '     '       flow top width =     28.233(Ft.)
  '     '    velocity=    3.234(Ft/s)
```

```
  '     '       area =      1.993(Sq.Ft)
  '     '       Froude number =     2.145

Upstream point elevation =    20.450(Ft.)
Downstream point elevation =    13.650(Ft.)
Flow length =    67.000(Ft.)
Travel time  =    0.35 min.
Time of concentration =   11.96 min.
Depth of flow =   0.141(Ft.)
Average velocity =   3.234(Ft/s)
Total irregular channel flow =     6.444(CFS)
Irregular channel normal depth above invert elev. =   0.141(Ft.)
Average velocity of channel(s) =   3.234(Ft/s)


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Process from Point/Station       16.000 to Point/Station       16.000
**** CONFLUENCE OF MINOR STREAMS ****
______________________________________________________________________________
Along Main Stream number: 2 in normal stream number 2
Stream flow area =      2.455(Ac.)
Runoff from this stream =      6.444(CFS)
Time of concentration =   11.96 min.
Rainfall intensity =     3.157(In/Hr)
Summary of stream data:

Stream   Flow rate      TC            Rainfall Intensity
 No.       (CFS)       (min)                (In/Hr)


1        4.427     18.19                2.506
2        6.444     11.96                3.157
Largest stream flow has longer or shorter time of concentration
Qp =      6.444 + sum of
          Qa          Tb/Ta
           4.427 *    0.657 =      2.909
Qp =      9.354

Total of 2 streams to confluence:
Flow rates before confluence point:
       4.427       6.444
Area of streams before confluence:
        2.137        2.455
Results of confluence:
Total flow rate =      9.354(CFS)
Time of concentration =    11.957 min.
Effective stream area after confluence =      4.592(Ac.)


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Process from Point/Station       16.000 to Point/Station       23.000
**** IRREGULAR CHANNEL FLOW TRAVEL TIME ****
______________________________________________________________________________
Depth of flow =   0.191(Ft.), Average velocity =   2.553(Ft/s)
       ******* Irregular Channel Data ***********
------------------------------------------------------------------
Information entered for subchannel number 1 :
Point number      'X' coordinate     'Y' coordinate
       1             0.00              1.00
       2           100.00              0.00
       3           200.00              1.00
Manning's 'N' friction factor =   0.025
------------------------------------------------------------------
Sub-Channel flow  =      9.354(CFS)
  '     '       flow top width =     38.279(Ft.)
  '     '    velocity=    2.553(Ft/s)
  '     '       area =      3.663(Sq.Ft)
  '     '       Froude number =     1.455

Upstream point elevation =    13.650(Ft.)
Downstream point elevation =     8.000(Ft.)
```

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Flow length =   134.000(Ft.)
Travel time  =    0.87 min.
Time of concentration =   12.83 min.
Depth of flow =   0.191(Ft.)
Average velocity =   2.553(Ft/s)
Total irregular channel flow =     9.354(CFS)
Irregular channel normal depth above invert elev. =   0.191(Ft.)
Average velocity of channel(s) =   2.553(Ft/s)


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Process from Point/Station       23.000 to Point/Station       24.000
**** PIPEFLOW TRAVEL TIME (User specified size) ****
________________________________________________________________________
Upstream point/station elevation =     8.000(Ft.)
Downstream point/station elevation =     4.000(Ft.)
Pipe length  =    54.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =     9.354(CFS)
Given pipe size =     24.00(In.)
Calculated individual pipe flow  =     9.354(CFS)
Normal flow depth in pipe =    6.32(In.)
Flow top width inside pipe =   21.14(In.)
Critical Depth =   13.11(In.)
Pipe flow velocity =     14.15(Ft/s)
Travel time through pipe =    0.06 min.
Time of concentration (TC) =    12.90 min.


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Process from Point/Station       24.000 to Point/Station       24.000
**** CONFLUENCE OF MAIN STREAMS ****
________________________________________________________________________
The following data inside Main Stream is listed:
In Main Stream number: 2
Stream flow area =      4.592(Ac.)
Runoff from this stream =      9.354(CFS)
Time of concentration =   12.90 min.
Rainfall intensity =     3.028(In/Hr)
Summary of stream data:

Stream   Flow rate      TC            Rainfall Intensity
 No.       (CFS)       (min)                 (In/Hr)


1       21.220     15.60               2.727
2        9.354     12.90               3.028
Largest stream flow has longer time of concentration
Qp =     21.220 + sum of
          Qb         Ia/Ib
           9.354 *    0.901 =      8.423
Qp =     29.643

Total of 2 main streams to confluence:
Flow rates before confluence point:
      21.220       9.354
Area of streams before confluence:
        9.045        4.592


Results of confluence:
Total flow rate =     29.643(CFS)
Time of concentration =    15.602 min.
Effective stream area after confluence  =     13.637(Ac.)
End of computations, total study area =           13.64 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.

Area averaged pervious area fraction(Ap) = 0.794
Area averaged RI index number =  74.2
```

Riverside County Rational Hydrology Program

CIVILCADD/CIVILDESIGN Engineering Software,(c) 1989 - 2014 Version 9.0
Rational Hydrology Study Date: 06/07/18 File:17053BMP1.out

RUNOFF TO BMP-1 ULTIMATELY TO POC-1
POST DEVELOPMENT 100 YEAR STORM EVENT
POC-1
FILENAME:17053BMP1.RRV

********* Hydrology Study Control Information **********

English (in-lb) Units used in input data file

Program License Serial Number 6332

Rational Method Hydrology Program based on
Riverside County Flood Control & Water Conservation District
1978 hydrology manual

Storm event (year) = 100.00 Antecedent Moisture Condition = 2

Standard intensity-duration curves data (Plate D-4.1)
For the [Murrieta,Tmc,Rnch CaNorco] area used.
10 year storm 10 minute intensity = 2.360(In/Hr)
10 year storm 60 minute intensity = 0.880(In/Hr)
100 year storm 10 minute intensity = 3.480(In/Hr)
100 year storm 60 minute intensity = 1.300(In/Hr)

Storm event year = 100.0
Calculated rainfall intensity data:
1 hour intensity = 1.300(In/Hr)
Slope of intensity duration curve = 0.5500

++

Process from Point/Station 11.000 to Point/Station 12.000
**** INITIAL AREA EVALUATION ****

Initial area flow distance = 428.000(Ft.)
Top (of initial area) elevation = 39.420(Ft.)
Bottom (of initial area) elevation = 30.310(Ft.)
Difference in elevation = 9.110(Ft.)
Slope = 0.02129 s(percent)= 2.13
TC = k(0.300)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration = 7.313 min.
Rainfall intensity = 4.137(In/Hr) for a 100.0 year storm
COMMERCIAL subarea type
Runoff Coefficient = 0.891
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 1.000
RI index for soil(AMC 2) = 75.00
Pervious area fraction = 0.100; Impervious fraction = 0.900
Initial subarea runoff = 8.432(CFS)
Total initial stream area = 2.287(Ac.)
Pervious area fraction = 0.100

++

Process from Point/Station 12.000 to Point/Station 15.000
**** PIPEFLOW TRAVEL TIME (User specified size) ****

Upstream point/station elevation = 26.480(Ft.)
Downstream point/station elevation = 25.000(Ft.)
Pipe length = 148.50(Ft.) Manning's N = 0.013
No. of pipes = 1 Required pipe flow = 8.432(CFS)
Given pipe size = 18.00(In.)
Calculated individual pipe flow = 8.432(CFS)
Normal flow depth in pipe = 12.22(In.)
Flow top width inside pipe = 16.81(In.)

```
Critical Depth =   13.49(In.)
Pipe flow velocity =      6.60(Ft/s)
Travel time through pipe =    0.38 min.
Time of concentration (TC) =     7.69 min.


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station       15.000 to Point/Station       15.000
**** CONFLUENCE OF MINOR STREAMS ****
______________________________________________________________________________
Along Main Stream number: 1 in normal stream number 1
Stream flow area =      2.287(Ac.)
Runoff from this stream =      8.432(CFS)
Time of concentration =    7.69 min.
Rainfall intensity =     4.025(In/Hr)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station       16.000 to Point/Station       17.000
**** INITIAL AREA EVALUATION ****
______________________________________________________________________________
Initial area flow distance =   251.000(Ft.)
Top (of initial area) elevation =    41.380(Ft.)
Bottom (of initial area) elevation =    37.000(Ft.)
Difference in elevation =     4.380(Ft.)
Slope =    0.01745  s(percent)=       1.75
TC = k(0.300)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration =    6.147 min.
Rainfall intensity =      4.552(In/Hr) for a   100.0 year storm
COMMERCIAL subarea type
Runoff Coefficient = 0.892
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 1.000
RI index for soil(AMC 2)  =  75.00
Pervious area fraction =  0.100; Impervious fraction =  0.900
Initial subarea runoff =      2.814(CFS)
Total initial stream area =        0.693(Ac.)
Pervious area fraction = 0.100


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station       17.000 to Point/Station       15.000
**** IMPROVED CHANNEL TRAVEL TIME ****
______________________________________________________________________________
Upstream point elevation =    37.000(Ft.)
Downstream point elevation =    25.000(Ft.)
Channel length thru subarea  =   502.000(Ft.)
Channel base width     =    0.000(Ft.)
Slope or 'Z' of left channel bank =   4.000
Slope or 'Z' of right channel bank =   4.000
Estimated mean flow rate at midpoint of channel =      3.100(CFS)
Manning's 'N'    = 0.015
Maximum depth of channel  =    0.500(Ft.)
Flow(q) thru subarea =      3.100(CFS)
Depth of flow =   0.391(Ft.), Average velocity =   5.059(Ft/s)
Channel flow top width =    3.131(Ft.)
Flow Velocity =    5.06(Ft/s)
Travel time  =    1.65 min.
Time of concentration =    7.80 min.

Sub-Channel No. 1 Critical depth =      0.516(Ft.)
  '     '       '     Critical flow top width =      4.000(Ft.)
  '     '       '     Critical flow velocity=    2.918(Ft/s)
  '     '       '     Critical flow area =      1.063(Sq.Ft)

 Adding area flow to channel
COMMERCIAL subarea type
Runoff Coefficient = 0.891
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
```

```
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 1.000
RI index for soil(AMC 2)  =  75.00
Pervious area fraction =  0.100; Impervious fraction =  0.900
Rainfall intensity =      3.993(In/Hr) for a   100.0 year storm
Subarea runoff =      0.502(CFS) for      0.141(Ac.)
Total runoff =      3.315(CFS)       Total area =       0.834(Ac.)
Depth of flow =   0.401(Ft.), Average velocity =   5.145(Ft/s)

Sub-Channel No. 1 Critical depth =      0.527(Ft.)
  '     '       '     Critical flow top width =      4.000(Ft.)
  '     '       '     Critical flow velocity=    2.988(Ft/s)
  '     '       '     Critical flow area =      1.109(Sq.Ft)



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Process from Point/Station       15.000 to Point/Station       15.000
**** CONFLUENCE OF MINOR STREAMS ****
________________________________________________________________________
Along Main Stream number: 1 in normal stream number 2
Stream flow area =      0.834(Ac.)
Runoff from this stream =      3.315(CFS)
Time of concentration =    7.80 min.
Rainfall intensity =     3.993(In/Hr)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        3.000 to Point/Station       13.000
**** INITIAL AREA EVALUATION ****
________________________________________________________________________
Initial area flow distance =   339.000(Ft.)
Top (of initial area) elevation =    42.400(Ft.)
Bottom (of initial area) elevation =    38.440(Ft.)
Difference in elevation =     3.960(Ft.)
Slope =    0.01168  s(percent)=       1.17
TC = k(0.300)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration =    7.511 min.
Rainfall intensity =      4.077(In/Hr) for a   100.0 year storm
COMMERCIAL subarea type
Runoff Coefficient = 0.891
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 1.000
RI index for soil(AMC 2)  =  75.00
Pervious area fraction =  0.100; Impervious fraction =  0.900
Initial subarea runoff =      1.093(CFS)
Total initial stream area =        0.301(Ac.)
Pervious area fraction = 0.100


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station       13.000 to Point/Station       14.000
**** STREET INLET + AREA  + PIPE  TRAVEL TIME ****
________________________________________________________________________
Top of street segment elevation =    38.440(Ft.)
End of street segment elevation =    28.260(Ft.)
Length of street segment  =   403.000(Ft.)
Height of curb above gutter flowline  =    6.0(In.)
Width of half street (curb to crown)  =  30.000(Ft.)
Distance from crown to crossfall grade break  =  28.000(Ft.)
Slope from gutter to grade break (v/hz) =   0.020
Slope from grade break to crown (v/hz)  =   0.020
Street flow is on [1] side(s) of the street
Distance from curb to property line  =  10.000(Ft.)
Slope from curb to property line (v/hz) =   0.025
Gutter width =   2.000(Ft.)
Gutter hike from flowline =  2.000(In.)
 Manning's N in gutter =  0.0150
 Manning's N from gutter to grade break =  0.0150
 Manning's N from grade break to crown =  0.0150
```

```
Street Inlet Calculations:
Street flow before street inlet =      1.093(CFS)
Half street flow before street inlet =      1.093(CFS)
Existing pipe flow before street inlet =      0.000(CFS)
Number of street inlets = 1
Depth of flow =   0.359(Ft.), Average velocity =   4.247(Ft/s)
U.S. DOT Hydraulic Engineering Circular No. 12 curb inlet calculations:
 Street flow half width at start of inlet =      2.000(Ft.)
 Flow rate in gutter section of street = Qw =      1.093(CFS)
 Ratio of frontal flow to total flow = E0 =  1.0000
 Given curb inlet length  L =      4.000(Ft.)

Half street cross section data points at curb inlet:
               X-coordinate (Ft.)   Y-coordinate (Ft.)
              0.0000               1.0833 right of way
             10.0000               0.8333 top of curb
             10.0000               0.0000 flow line
             12.0000               0.5000 gutter/depression end
             12.0000               0.5000 grade break
             40.0000               1.0600 crown
 Length required for total flow interception = Lt
 Lt = .6 * Q^0.42 * Slope^.3 * (1/(n*Se)^.6 =      7.029(Ft.)
 where Manning's n = 0.0150 and Slope = street slope =  0.0253
 Se = Equivalent Street x-slope including depression =  0.1867
 Gutter depression depth =      4.000(In.)
 Gutter depression width =      2.000(Ft.)
 Efficiency = 1 - (1-L/Lt)^1.8 =  0.7803

Pipe calculations for under street flow rate of      0.853(CFS)
Using a pipe slope =      2.526 %
Upstream point/station elevation =    38.440(Ft.)
Downstream point/station elevation =    28.260(Ft.)
Pipe length  =   403.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =     0.853(CFS)
Nearest computed pipe diameter  =      6.00(In.)
Calculated individual pipe flow  =     0.853(CFS)
Normal flow depth in pipe =    4.70(In.)
Flow top width inside pipe =    4.94(In.)
Critical Depth =    5.44(In.)
Pipe flow velocity =      5.17(Ft/s)
Travel time through pipe =    1.30 min.
Time of concentration (TC) =     8.81 min.
Maximum flow rate of street inlet(s) =      0.853(CFS)
Maximum pipe flow capacity =      0.853(CFS)
Remaining flow in street below inlet =      0.240(CFS)
 Adding area flow to street
COMMERCIAL subarea type
Runoff Coefficient = 0.890
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 1.000
RI index for soil(AMC 2)  =  75.00
Pervious area fraction =  0.100; Impervious fraction =  0.900
Rainfall intensity =      3.734(In/Hr) for a   100.0 year storm
Subarea runoff =      1.510(CFS) for      0.454(Ac.)
Total runoff =      2.603(CFS)       Total area =       0.755(Ac.)
Street flow at end of street =      1.750(CFS)
Half street flow at end of street =      1.750(CFS)
Depth of flow =   0.262(Ft.), Average velocity =   2.997(Ft/s)
Flow width (from curb towards crown)=   6.762(Ft.)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station       14.000 to Point/Station       15.000
**** PIPEFLOW TRAVEL TIME (User specified size) ****
______________________________________________________________________________
Upstream point/station elevation =    26.070(Ft.)
Downstream point/station elevation =    25.000(Ft.)
Pipe length  =   187.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =     2.603(CFS)
```

```
Given pipe size =     18.00(In.)
Calculated individual pipe flow  =     2.603(CFS)
Normal flow depth in pipe =    7.09(In.)
Flow top width inside pipe =   17.59(In.)
Critical Depth =    7.33(In.)
Pipe flow velocity =      4.03(Ft/s)
Travel time through pipe =    0.77 min.
Time of concentration (TC) =     9.58 min.


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station       10.000 to Point/Station       15.000
**** SUBAREA FLOW ADDITION ****
----------------------------------------------------------------------
COMMERCIAL subarea type
Runoff Coefficient = 0.890
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 1.000
RI index for soil(AMC 2)  =  75.00
Pervious area fraction =  0.100; Impervious fraction =  0.900
Time of concentration =     9.58 min.
Rainfall intensity =      3.565(In/Hr) for a   100.0 year storm
Subarea runoff =      0.492(CFS) for      0.155(Ac.)
Total runoff =      3.095(CFS)       Total area =       0.910(Ac.)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station       15.000 to Point/Station       15.000
**** CONFLUENCE OF MINOR STREAMS ****
----------------------------------------------------------------------
Along Main Stream number: 1 in normal stream number 3
Stream flow area =      0.910(Ac.)
Runoff from this stream =      3.095(CFS)
Time of concentration =    9.58 min.
Rainfall intensity =     3.565(In/Hr)
Summary of stream data:

Stream   Flow rate      TC            Rainfall Intensity
 No.       (CFS)       (min)                 (In/Hr)

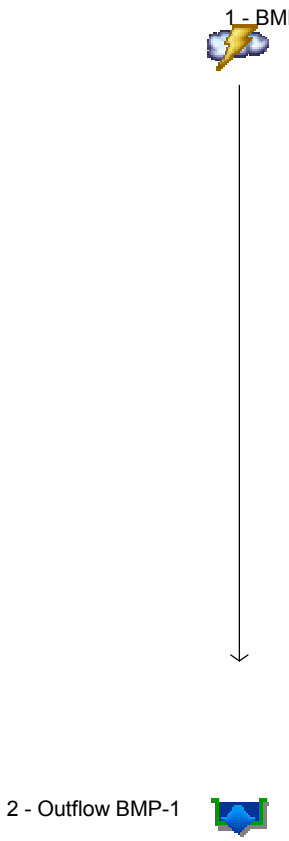

1        8.432      7.69                4.025
2        3.315      7.80                3.993
3        3.095      9.58                3.565
Largest stream flow has longer or shorter time of concentration
Qp =      8.432 + sum of
          Qa          Tb/Ta
           3.315 *    0.986 =      3.268
          Qa          Tb/Ta
           3.095 *    0.802 =      2.482
Qp =     14.182

Total of 3 streams to confluence:
Flow rates before confluence point:
       8.432       3.315       3.095
Area of streams before confluence:
        2.287       0.834       0.910
Results of confluence:
Total flow rate =     14.182(CFS)
Time of concentration =     7.688 min.
Effective stream area after confluence =      4.031(Ac.)
End of computations, total study area =            4.03 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.

Area averaged pervious area fraction(Ap) = 0.100
Area averaged RI index number =  75.0
```

Watershed Model Schematic

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2015 by Autodesk, Inc. v10.4



Legend

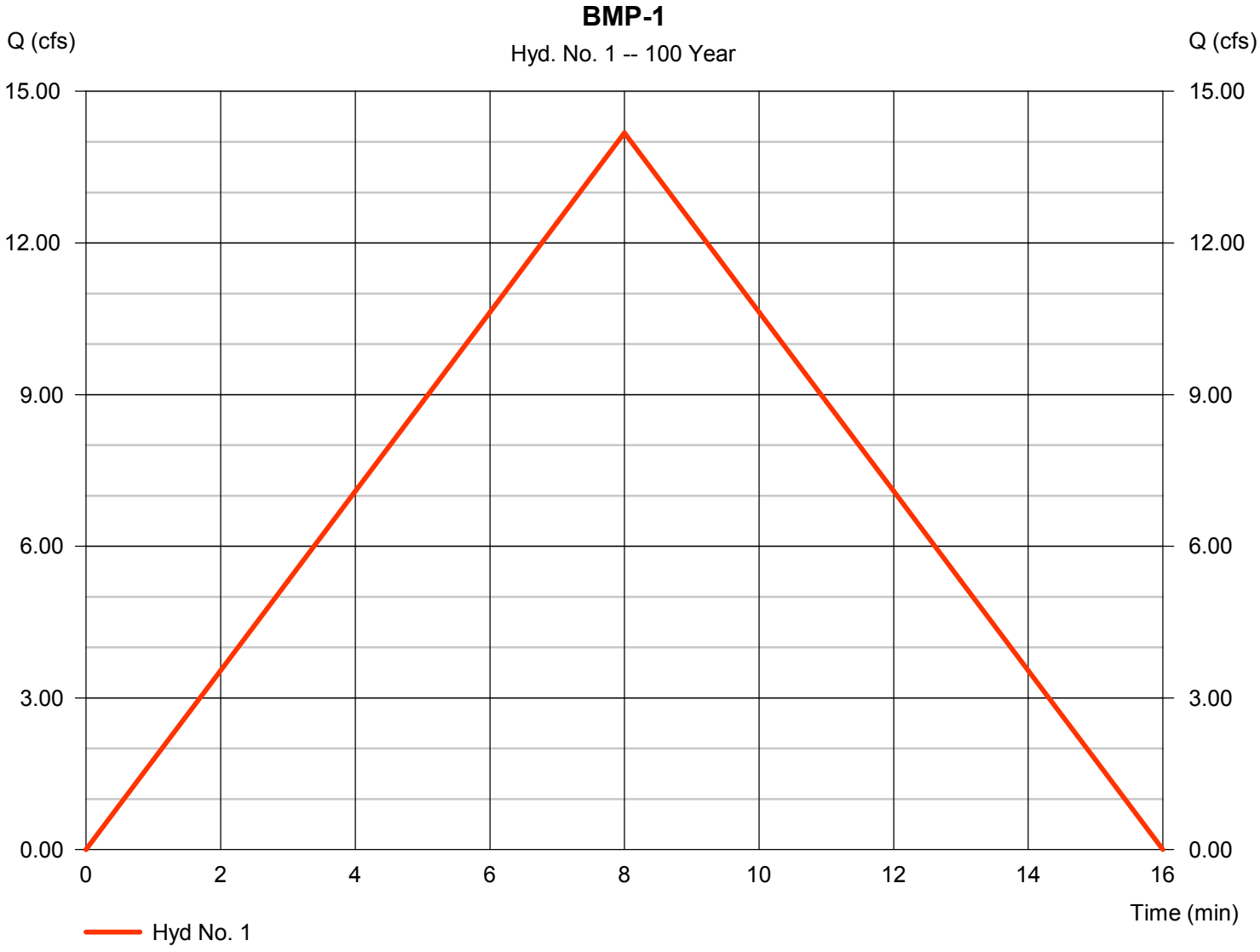
Hyd.	Origin	Description
1	Rational	BMP-1
2	Reservoir	Outflow BMP-1

Hydrograph Report

Hyd. No. 1

BMP-1

Hydrograph type	= Rational	Peak discharge	= 14.18 cfs
Storm frequency	= 100 yrs	Time to peak	= 8 min
Time interval	= 1 min	Hyd. volume	= 6,804 cuft
Drainage area	= 4.033 ac	Runoff coeff.	= 0.9
Intensity	= 3.905 in/hr	Tc by User	= 8.00 min
IDF Curve	= Murrieta - Temecula.IDF	Asc/Rec limb fact	= 1/1



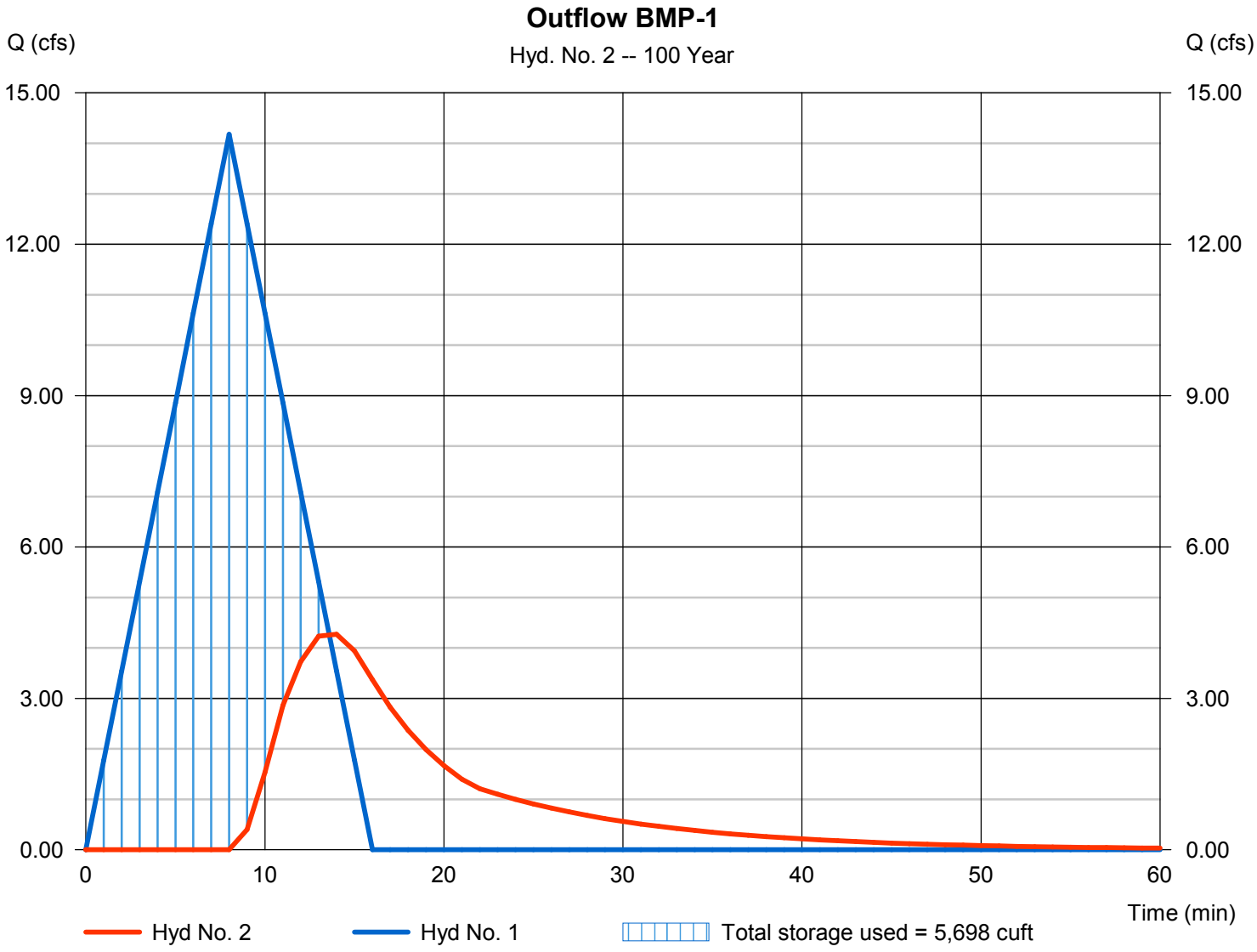
Hydrograph Report

Hyd. No. 2

Outflow BMP-1

Hydrograph type	=	Reservoir	Peak discharge	=	4.271 cfs
Storm frequency	=	100 yrs	Time to peak	=	14 min
Time interval	=	1 min	Hyd. volume	=	2,866 cuft
Inflow hyd. No.	=	1 - BMP-1	Max. Elevation	=	1525.73 ft
Reservoir name	=	BMP-1	Max. Storage	=	5,698 cuft

Storage Indication method used.



Pond Report

Pond No. 1 - BMP-1

Pond Data

Contours -User-defined contour areas. Conic method used for volume calculation. Begining Elevation = 1525.00 ft

Stage / Storage Table

Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (cuft)	Total storage (cuft)
0.00	1525.00	7,343	0	0
1.00	1526.00	8,422	7,876	7,876

Culvert / Orifice Structures

	[A]	[B]	[C]	[PrfRsr]
Rise (in)	= 18.00	0.00	0.00	0.00
Span (in)	= 18.00	0.00	0.00	0.00
No. Barrels	= 1	0	0	0
Invert El. (ft)	= 1521.00	0.00	0.00	0.00
Length (ft)	= 5.00	0.00	0.00	0.00
Slope (%)	= 1.00	0.00	0.00	n/a
N-Value	= .013	.013	.013	n/a
Orifice Coeff.	= 0.60	0.60	0.60	0.60
Multi-Stage	= n/a	No	No	No

Weir Structures

	[A]	[B]	[C]	[D]
Crest Len (ft)	= 12.00	0.00	0.00	0.00
Crest El. (ft)	= 1525.50	0.00	0.00	0.00
Weir Coeff.	= 3.33	3.33	3.33	3.33
Weir Type	= 1	---	---	---
Multi-Stage	= Yes	No	No	No
Exfil.(in/hr)	= 0.000 (by Contour)			
TW Elev. (ft)	= 0.00			

Note: Culvert/Orifice outflows are analyzed under inlet (ic) and outlet (oc) control. Weir risers checked for orifice conditions (ic) and submergence (s).

Stage / Storage / Discharge Table

Stage ft	Storage cuft	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	PrfRsr cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	User cfs	Total cfs
0.00	0	1525.00	0.00	---	---	---	0.00	---	---	---	---	---	0.000
0.10	788	1525.10	15.34 ic	---	---	---	0.00	---	---	---	---	---	0.000
0.20	1,575	1525.20	15.34 ic	---	---	---	0.00	---	---	---	---	---	0.000
0.30	2,363	1525.30	15.34 ic	---	---	---	0.00	---	---	---	---	---	0.000
0.40	3,150	1525.40	15.34 ic	---	---	---	0.00	---	---	---	---	---	0.000
0.50	3,938	1525.50	15.34 ic	---	---	---	0.00	---	---	---	---	---	0.000
0.60	4,725	1525.60	15.34 ic	---	---	---	1.26	---	---	---	---	---	1.261
0.70	5,513	1525.70	15.34 ic	---	---	---	3.57	---	---	---	---	---	3.570
0.80	6,300	1525.80	15.34 ic	---	---	---	6.56	---	---	---	---	---	6.560
0.90	7,088	1525.90	15.34 ic	---	---	---	10.10	---	---	---	---	---	10.10
1.00	7,876	1526.00	15.34 ic	---	---	---	14.13	---	---	---	---	---	14.13

Hydraflow Rainfall Report

Return Period (Yrs)	Intensity-Duration-Frequency Equation Coefficients (FHA)			
	B	D	E	(N/A)
1	0.0000	0.0000	0.0000	--------
2	0.0000	0.0000	0.0000	--------
3	0.0000	0.0000	0.0000	--------
5	0.0000	0.0000	0.0000	--------
10	8.4804	0.1000	0.5531	--------
25	0.0000	0.0000	0.0000	--------
50	0.0000	0.0000	0.0000	--------
100	12.3083	0.1000	0.5488	--------

File name: SampleFHA.idf

Intensity = B / (Tc + D)^E

Return Period (Yrs)	Intensity Values (in/hr)											
	5 min	10	15	20	25	30	35	40	45	50	55	60
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	3.44	2.36	1.89	1.61	1.43	1.29	1.18	1.10	1.03	0.97	0.92	0.88
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	5.03	3.46	2.77	2.37	2.10	1.90	1.75	1.62	1.52	1.44	1.36	1.30

Tc = time in minutes. Values may exceed 60.

Precip. file name: Sample.pcp

Storm Distribution	Rainfall Precipitation Table (in)							
	1-yr	2-yr	3-yr	5-yr	10-yr	25-yr	50-yr	100-yr
SCS 24-hour	0.00	2.20	0.00	3.30	4.25	5.77	6.80	0.00
SCS 6-Hr	0.00	1.80	0.00	0.00	2.60	0.00	0.00	0.00
Huff-1st	0.00	1.55	0.00	2.75	4.00	5.38	6.50	0.00
Huff-2nd	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Huff-3rd	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Huff-4th	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Huff-Indy	0.00	1.55	0.00	2.75	4.00	5.38	6.50	0.00
Custom	0.00	1.75	0.00	2.80	3.90	5.25	6.00	0.00

Riverside County Rational Hydrology Program

CIVILCADD/CIVILDESIGN Engineering Software,(c) 1989 - 2014 Version 9.0
Rational Hydrology Study Date: 06/07/18 File:17053BMP2.out

RUNOFF TO BMP-2 ULTIMATELY TO POC-1
POST-DEVELOPMENT 100 YEAR STORM EVENT
POC-1
FILENAME: 17053BMP2.RRV

********* Hydrology Study Control Information **********

English (in-lb) Units used in input data file

Program License Serial Number 6332

Rational Method Hydrology Program based on
Riverside County Flood Control & Water Conservation District
1978 hydrology manual

Storm event (year) = 100.00 Antecedent Moisture Condition = 2

Standard intensity-duration curves data (Plate D-4.1)
For the [Murrieta,Tmc,Rnch CaNorco] area used.
10 year storm 10 minute intensity = 2.360(In/Hr)
10 year storm 60 minute intensity = 0.880(In/Hr)
100 year storm 10 minute intensity = 3.480(In/Hr)
100 year storm 60 minute intensity = 1.300(In/Hr)

Storm event year = 100.0
Calculated rainfall intensity data:
1 hour intensity = 1.300(In/Hr)
Slope of intensity duration curve = 0.5500

++
Process from Point/Station 3.000 to Point/Station 4.000
**** INITIAL AREA EVALUATION ****

Initial area flow distance = 192.000(Ft.)
Top (of initial area) elevation = 42.400(Ft.)
Bottom (of initial area) elevation = 40.500(Ft.)
Difference in elevation = 1.900(Ft.)
Slope = 0.00990 s(percent)= 0.99
TC = k(0.300)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration = 6.185 min.
Rainfall intensity = 4.536(In/Hr) for a 100.0 year storm
COMMERCIAL subarea type
Runoff Coefficient = 0.892
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 1.000
RI index for soil(AMC 2) = 75.00
Pervious area fraction = 0.100; Impervious fraction = 0.900
Initial subarea runoff = 0.910(CFS)
Total initial stream area = 0.225(Ac.)
Pervious area fraction = 0.100

++
Process from Point/Station 4.000 to Point/Station 6.000
**** PIPEFLOW TRAVEL TIME (User specified size) ****

Upstream point/station elevation = 36.630(Ft.)
Downstream point/station elevation = 36.000(Ft.)
Pipe length = 59.00(Ft.) Manning's N = 0.013
No. of pipes = 1 Required pipe flow = 0.910(CFS)

```
Given pipe size =     12.00(In.)
Calculated individual pipe flow  =     0.910(CFS)
Normal flow depth in pipe =    4.07(In.)
Flow top width inside pipe =   11.36(In.)
Critical Depth =    4.79(In.)
Pipe flow velocity =      3.88(Ft/s)
Travel time through pipe =    0.25 min.
Time of concentration (TC) =     6.44 min.


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Process from Point/Station        6.000 to Point/Station        6.000
**** CONFLUENCE OF MINOR STREAMS ****
________________________________________________________________________
Along Main Stream number: 1 in normal stream number 1
Stream flow area =      0.225(Ac.)
Runoff from this stream =      0.910(CFS)
Time of concentration =    6.44 min.
Rainfall intensity =     4.437(In/Hr)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        5.000 to Point/Station        6.000
**** INITIAL AREA EVALUATION ****
________________________________________________________________________
Initial area flow distance =   201.000(Ft.)
Top (of initial area) elevation =    41.380(Ft.)
Bottom (of initial area) elevation =    36.000(Ft.)
Difference in elevation =     5.380(Ft.)
Slope =    0.02677  s(percent)=       2.68
TC = k(0.300)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration =    5.163 min.
Rainfall intensity =      5.010(In/Hr) for a   100.0 year storm
COMMERCIAL subarea type
Runoff Coefficient = 0.893
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 1.000
RI index for soil(AMC 2)  =  75.00
Pervious area fraction =  0.100; Impervious fraction =  0.900
Initial subarea runoff =      3.122(CFS)
Total initial stream area =        0.698(Ac.)
Pervious area fraction = 0.100


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Process from Point/Station        6.000 to Point/Station        6.000
**** CONFLUENCE OF MINOR STREAMS ****
________________________________________________________________________
Along Main Stream number: 1 in normal stream number 2
Stream flow area =      0.698(Ac.)
Runoff from this stream =      3.122(CFS)
Time of concentration =    5.16 min.
Rainfall intensity =     5.010(In/Hr)
Summary of stream data:

Stream   Flow rate      TC            Rainfall Intensity
 No.       (CFS)       (min)                (In/Hr)


1        0.910      6.44                 4.437
2        3.122      5.16                 5.010
Largest stream flow has longer or shorter time of concentration
Qp =      3.122 + sum of
          Qa          Tb/Ta
           0.910 *    0.802 =      0.730
Qp =      3.852

Total of 2 streams to confluence:
Flow rates before confluence point:
```

```
       0.910       3.122
Area of streams before confluence:
        0.225        0.698
Results of confluence:
Total flow rate =      3.852(CFS)
Time of concentration =     5.163 min.
Effective stream area after confluence =      0.923(Ac.)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        6.000 to Point/Station        7.000
**** PIPEFLOW TRAVEL TIME (User specified size) ****
________________________________________________________________________
Upstream point/station elevation =    36.000(Ft.)
Downstream point/station elevation =    17.950(Ft.)
Pipe length  =  1174.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =     3.852(CFS)
Given pipe size =     12.00(In.)
Calculated individual pipe flow  =     3.852(CFS)
Normal flow depth in pipe =    8.67(In.)
Flow top width inside pipe =   10.74(In.)
Critical Depth =   10.00(In.)
Pipe flow velocity =      6.34(Ft/s)
Travel time through pipe =    3.09 min.
Time of concentration (TC) =     8.25 min.
End of computations, total study area =            0.92 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.

Area averaged pervious area fraction(Ap) = 0.100
Area averaged RI index number =  75.0
```

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       Riverside County Rational Hydrology Program

CIVILCADD/CIVILDESIGN Engineering Software,(c) 1989 - 2014 Version 9.0
       Rational Hydrology Study        Date: 06/07/18  File:17053POSTPOC1.out
------------------------------------------------------------------------
POST-DEVELOPMENT 100 YEAR STORM EVENT
POC-1
FILE:17053POC1.RRV

------------------------------------------------------------------------
 *********   Hydrology Study Control Information **********

 English (in-lb) Units used in input data file

------------------------------------------------------------------------

Program License Serial Number 6332

------------------------------------------------------------------------
Rational Method Hydrology Program based on
Riverside County Flood Control & Water Conservation District
1978 hydrology manual

Storm event (year) =  100.00 Antecedent Moisture Condition = 2

Standard intensity-duration curves data (Plate D-4.1)
For the [ Murrieta,Tmc,Rnch CaNorco ] area used.
10 year storm 10 minute intensity =  2.360(In/Hr)
10 year storm 60 minute intensity =  0.880(In/Hr)
100 year storm 10 minute intensity =  3.480(In/Hr)
100 year storm 60 minute intensity =  1.300(In/Hr)

Storm event year = 100.0
Calculated rainfall intensity data:
1 hour intensity =  1.300(In/Hr)
Slope of intensity duration curve = 0.5500


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Process from Point/Station        6.000 to Point/Station        6.000
**** USER DEFINED FLOW INFORMATION AT A POINT ****
________________________________________________________________________
Rainfall intensity =      5.099(In/Hr) for a   100.0 year storm
COMMERCIAL subarea type
Runoff Coefficient = 0.893
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 1.000
RI index for soil(AMC 2)  =  75.00
Pervious area fraction =  0.100; Impervious fraction =  0.900
User specified values are as follows:
TC =   5.00 min.  Rain intensity =       5.10(In/Hr)
Total area =         0.92(Ac.)  Total runoff =      3.85(CFS)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        6.000 to Point/Station        7.000
**** PIPEFLOW TRAVEL TIME (User specified size) ****
________________________________________________________________________
Upstream point/station elevation =    33.480(Ft.)
Downstream point/station elevation =    17.950(Ft.)
Pipe length  =  1175.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =     3.852(CFS)
Given pipe size =     12.00(In.)
Calculated individual pipe flow  =     3.852(CFS)
Normal flow depth in pipe =    9.26(In.)
Flow top width inside pipe =   10.08(In.)
Critical Depth =   10.00(In.)
Pipe flow velocity =      5.93(Ft/s)
Travel time through pipe =    3.30 min.
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Time of concentration (TC) =     8.30 min.


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Process from Point/Station        7.000 to Point/Station        7.000
**** CONFLUENCE OF MINOR STREAMS ****
______________________________________________________________________________
Along Main Stream number: 1 in normal stream number 1
Stream flow area =      0.923(Ac.)
Runoff from this stream =      3.852(CFS)
Time of concentration =    8.30 min.
Rainfall intensity =     3.858(In/Hr)


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Process from Point/Station       15.000 to Point/Station        7.000
**** USER DEFINED FLOW INFORMATION AT A POINT ****
______________________________________________________________________________
Rainfall intensity =      4.027(In/Hr) for a   100.0 year storm
COMMERCIAL subarea type
Runoff Coefficient = 0.891
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 1.000
RI index for soil(AMC 2)  =  75.00
Pervious area fraction =  0.100; Impervious fraction =  0.900
User specified values are as follows:
TC =   7.68 min.  Rain intensity =       4.03(In/Hr)
Total area =         4.04(Ac.)  Total runoff =      4.28(CFS)


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Process from Point/Station        7.000 to Point/Station        7.000
**** CONFLUENCE OF MINOR STREAMS ****
______________________________________________________________________________
Along Main Stream number: 1 in normal stream number 2
Stream flow area =      4.036(Ac.)
Runoff from this stream =      4.278(CFS)
Time of concentration =    7.68 min.
Rainfall intensity =     4.027(In/Hr)
Summary of stream data:

Stream   Flow rate      TC            Rainfall Intensity
 No.       (CFS)       (min)                (In/Hr)


1        3.852      8.30                 3.858
2        4.278      7.68                 4.027
Largest stream flow has longer or shorter time of concentration
Qp =      4.278 + sum of
          Qa          Tb/Ta
           3.852 *    0.925 =      3.563
Qp =      7.841

Total of 2 streams to confluence:
Flow rates before confluence point:
       3.852       4.278
Area of streams before confluence:
        0.923        4.036
Results of confluence:
Total flow rate =      7.841(CFS)
Time of concentration =     7.680 min.
Effective stream area after confluence =      4.959(Ac.)


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Process from Point/Station        7.000 to Point/Station        8.000
**** PIPEFLOW TRAVEL TIME (User specified size) ****
______________________________________________________________________________
Upstream point/station elevation =    17.950(Ft.)
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Downstream point/station elevation =    14.780(Ft.)
Pipe length  =   102.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =     7.841(CFS)
Given pipe size =     18.00(In.)
Calculated individual pipe flow  =     7.841(CFS)
Normal flow depth in pipe =    8.18(In.)
Flow top width inside pipe =   17.93(In.)
Critical Depth =   13.01(In.)
Pipe flow velocity =     10.05(Ft/s)
Travel time through pipe =    0.17 min.
Time of concentration (TC) =     7.85 min.


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        8.000 to Point/Station        8.000
**** CONFLUENCE OF MINOR STREAMS ****
______________________________________________________________________________
Along Main Stream number: 1 in normal stream number 1
Stream flow area =      4.959(Ac.)
Runoff from this stream =      7.841(CFS)
Time of concentration =    7.85 min.
Rainfall intensity =     3.979(In/Hr)


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Process from Point/Station       18.000 to Point/Station       19.000
**** INITIAL AREA EVALUATION ****
______________________________________________________________________________
Initial area flow distance =   296.000(Ft.)
Top (of initial area) elevation =    28.830(Ft.)
Bottom (of initial area) elevation =    23.980(Ft.)
Difference in elevation =     4.850(Ft.)
Slope =    0.01639  s(percent)=       1.64
TC = k(0.300)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration =    6.649 min.
Rainfall intensity =      4.359(In/Hr) for a   100.0 year storm
COMMERCIAL subarea type
Runoff Coefficient = 0.892
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 1.000
RI index for soil(AMC 2)  =  75.00
Pervious area fraction =  0.100; Impervious fraction =  0.900
Initial subarea runoff =      2.865(CFS)
Total initial stream area =        0.737(Ac.)
Pervious area fraction = 0.100


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Process from Point/Station       19.000 to Point/Station        8.000
**** PIPEFLOW TRAVEL TIME (User specified size) ****
______________________________________________________________________________
Upstream point/station elevation =    21.000(Ft.)
Downstream point/station elevation =    14.780(Ft.)
Pipe length  =    89.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =     2.865(CFS)
Given pipe size =     12.00(In.)
Calculated individual pipe flow  =     2.865(CFS)
Normal flow depth in pipe =    4.54(In.)
Flow top width inside pipe =   11.64(In.)
Critical Depth =    8.71(In.)
Pipe flow velocity =     10.52(Ft/s)
Travel time through pipe =    0.14 min.
Time of concentration (TC) =     6.79 min.


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Process from Point/Station        8.000 to Point/Station        8.000
**** CONFLUENCE OF MINOR STREAMS ****
______________________________________________________________________________
```

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Along Main Stream number: 1 in normal stream number 2
Stream flow area =      0.737(Ac.)
Runoff from this stream =      2.865(CFS)
Time of concentration =    6.79 min.
Rainfall intensity =     4.309(In/Hr)
Summary of stream data:

Stream   Flow rate      TC            Rainfall Intensity
 No.       (CFS)       (min)                (In/Hr)


1        7.841      7.85                 3.979
2        2.865      6.79                 4.309
Largest stream flow has longer time of concentration
Qp =      7.841 + sum of
          Qb         Ia/Ib
           2.865 *    0.923 =      2.645
Qp =     10.486

Total of 2 streams to confluence:
Flow rates before confluence point:
       7.841       2.865
Area of streams before confluence:
        4.959        0.737
Results of confluence:
Total flow rate =     10.486(CFS)
Time of concentration =     7.849 min.
Effective stream area after confluence =      5.696(Ac.)


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Process from Point/Station        8.000 to Point/Station        9.000
**** PIPEFLOW TRAVEL TIME (User specified size) ****
______________________________________________________________________________
Upstream point/station elevation =    14.780(Ft.)
Downstream point/station elevation =    12.800(Ft.)
Pipe length  =    66.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =    10.486(CFS)
Given pipe size =     18.00(In.)
Calculated individual pipe flow  =    10.486(CFS)
Normal flow depth in pipe =    9.80(In.)
Flow top width inside pipe =   17.93(In.)
Critical Depth =   14.93(In.)
Pipe flow velocity =     10.66(Ft/s)
Travel time through pipe =    0.10 min.
Time of concentration (TC) =     7.95 min.


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        9.000 to Point/Station        9.000
**** CONFLUENCE OF MAIN STREAMS ****
______________________________________________________________________________
The following data inside Main Stream is listed:
In Main Stream number: 1
Stream flow area =      5.696(Ac.)
Runoff from this stream =     10.486(CFS)
Time of concentration =    7.95 min.
Rainfall intensity =     3.950(In/Hr)
Program is now starting with Main Stream No. 2


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station       20.000 to Point/Station       21.000
**** INITIAL AREA EVALUATION ****
______________________________________________________________________________
Initial area flow distance =   308.000(Ft.)
Top (of initial area) elevation =    44.000(Ft.)
Bottom (of initial area) elevation =    40.000(Ft.)
Difference in elevation =     4.000(Ft.)
Slope =    0.01299  s(percent)=       1.30
TC = k(0.530)*[(length^3)/(elevation change)]^0.2
```

```
Initial area time of concentration =   12.502 min.
Rainfall intensity =      3.080(In/Hr) for a   100.0 year storm
UNDEVELOPED (poor cover) subarea
Runoff Coefficient = 0.854
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 1.000
RI index for soil(AMC 2)  =  89.00
Pervious area fraction =  1.000; Impervious fraction =  0.000
Initial subarea runoff =      4.181(CFS)
Total initial stream area =        1.589(Ac.)
Pervious area fraction = 1.000


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Process from Point/Station       21.000 to Point/Station       22.000
**** IRREGULAR CHANNEL FLOW TRAVEL TIME ****
________________________________________________________________________
Estimated mean flow rate at midpoint of channel =      7.190(CFS)
Depth of flow =   0.655(Ft.), Average velocity =   8.376(Ft/s)
       ******* Irregular Channel Data ***********
------------------------------------------------------------------
Information entered for subchannel number 1 :
Point number      'X' coordinate     'Y' coordinate
       1              0.00              1.00
       2              2.00              0.00
       3              4.00              1.00
Manning's 'N' friction factor =   0.014
------------------------------------------------------------------
Sub-Channel flow  =      7.190(CFS)
  '     '       flow top width =      2.621(Ft.)
  '     '    velocity=    8.376(Ft/s)
  '     '       area =      0.858(Sq.Ft)
  '     '       Froude number =     2.579

Upstream point elevation =    40.000(Ft.)
Downstream point elevation =    26.400(Ft.)
Flow length =   425.000(Ft.)
Travel time  =    0.85 min.
Time of concentration =   13.35 min.
Depth of flow =   0.655(Ft.)
Average velocity =   8.376(Ft/s)
Total irregular channel flow =     7.190(CFS)
Irregular channel normal depth above invert elev. =   0.655(Ft.)
Average velocity of channel(s) =   8.376(Ft/s)
 Adding area flow to channel
UNDEVELOPED (poor cover) subarea
Runoff Coefficient = 0.853
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 1.000
RI index for soil(AMC 2)  =  89.00
Pervious area fraction =  1.000; Impervious fraction =  0.000
Rainfall intensity =      2.971(In/Hr) for a   100.0 year storm
Subarea runoff =      5.959(CFS) for      2.352(Ac.)
Total runoff =     10.140(CFS)        Total area =       3.941(Ac.)
Depth of flow =   0.745(Ft.), Average velocity =   9.128(Ft/s)


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Process from Point/Station       22.000 to Point/Station       27.000
**** IRREGULAR CHANNEL FLOW TRAVEL TIME ****
________________________________________________________________________
Estimated mean flow rate at midpoint of channel =     11.653(CFS)
Depth of flow =   0.340(Ft.), Average velocity =   3.723(Ft/s)
       ******* Irregular Channel Data ***********
------------------------------------------------------------------
Information entered for subchannel number 1 :
Point number      'X' coordinate     'Y' coordinate
```

```
       1             0.00             0.50
       2             0.00             0.00
       3            27.00             0.50
Manning's 'N' friction factor =   0.015
-----------------------------------------------------------------
Sub-Channel flow  =     11.653(CFS)
  '     '       flow top width =     18.385(Ft.)
  '     '    velocity=    3.723(Ft/s)
  '     '       area =      3.130(Sq.Ft)
  '     '       Froude number =     1.590

Upstream point elevation =    26.400(Ft.)
Downstream point elevation =    20.430(Ft.)
Flow length =   389.000(Ft.)
Travel time  =    1.74 min.
Time of concentration =   15.09 min.
Depth of flow =   0.340(Ft.)
Average velocity =   3.723(Ft/s)
Total irregular channel flow =    11.653(CFS)
Irregular channel normal depth above invert elev. =   0.340(Ft.)
Average velocity of channel(s) =   3.723(Ft/s)
 Adding area flow to channel
SINGLE FAMILY (1/4 Acre Lot)
Runoff Coefficient = 0.838
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 1.000
RI index for soil(AMC 2)  =  75.00
Pervious area fraction =  0.500; Impervious fraction =  0.500
Rainfall intensity =      2.778(In/Hr) for a   100.0 year storm
Subarea runoff =      2.946(CFS) for      1.266(Ac.)
Total runoff =     13.087(CFS)        Total area =       5.207(Ac.)
Depth of flow =   0.356(Ft.), Average velocity =   3.833(Ft/s)


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Process from Point/Station       27.000 to Point/Station       27.000
**** CONFLUENCE OF MINOR STREAMS ****
________________________________________________________________________
Along Main Stream number: 2 in normal stream number 1
Stream flow area =      5.207(Ac.)
Runoff from this stream =     13.087(CFS)
Time of concentration =   15.09 min.
Rainfall intensity =     2.778(In/Hr)


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Process from Point/Station       23.000 to Point/Station       24.000
**** INITIAL AREA EVALUATION ****
________________________________________________________________________
Initial area flow distance =   133.000(Ft.)
Top (of initial area) elevation =    27.400(Ft.)
Bottom (of initial area) elevation =    25.000(Ft.)
Difference in elevation =     2.400(Ft.)
Slope =    0.01805  s(percent)=       1.80
TC = k(0.300)*[(length^3)/(elevation change)]^0.2
Warning: TC computed to be less than 5 min.; program is assuming the
time of concentration is 5 minutes.
Initial area time of concentration =    5.000 min.
Rainfall intensity =      5.099(In/Hr) for a   100.0 year storm
COMMERCIAL subarea type
Runoff Coefficient = 0.893
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 1.000
RI index for soil(AMC 2)  =  75.00
Pervious area fraction =  0.100; Impervious fraction =  0.900
Initial subarea runoff =      2.299(CFS)
Total initial stream area =        0.505(Ac.)
```

```
Pervious area fraction = 0.100


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Process from Point/Station       24.000 to Point/Station       27.000
**** PIPEFLOW TRAVEL TIME (User specified size) ****
------------------------------------------------------------------------
Upstream point/station elevation =    25.000(Ft.)
Downstream point/station elevation =    21.000(Ft.)
Pipe length  =   125.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =     2.299(CFS)
Given pipe size =     12.00(In.)
Calculated individual pipe flow  =     2.299(CFS)
Normal flow depth in pipe =    4.98(In.)
Flow top width inside pipe =   11.83(In.)
Critical Depth =    7.79(In.)
Pipe flow velocity =      7.45(Ft/s)
Travel time through pipe =    0.28 min.
Time of concentration (TC) =     5.28 min.


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Process from Point/Station       27.000 to Point/Station       27.000
**** CONFLUENCE OF MINOR STREAMS ****
------------------------------------------------------------------------
Along Main Stream number: 2 in normal stream number 2
Stream flow area =      0.505(Ac.)
Runoff from this stream =      2.299(CFS)
Time of concentration =    5.28 min.
Rainfall intensity =     4.949(In/Hr)
Summary of stream data:

Stream   Flow rate      TC            Rainfall Intensity
 No.       (CFS)       (min)                 (In/Hr)


1       13.087     15.09                2.778
2        2.299      5.28                4.949
Largest stream flow has longer time of concentration
Qp =     13.087 + sum of
          Qb         Ia/Ib
           2.299 *    0.561 =      1.290
Qp =     14.377

Total of 2 streams to confluence:
Flow rates before confluence point:
      13.087       2.299
Area of streams before confluence:
        5.207        0.505
Results of confluence:
Total flow rate =     14.377(CFS)
Time of concentration =    15.089 min.
Effective stream area after confluence =      5.712(Ac.)


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Process from Point/Station       27.000 to Point/Station        9.000
**** PIPEFLOW TRAVEL TIME (User specified size) ****
------------------------------------------------------------------------
Upstream point/station elevation =    15.660(Ft.)
Downstream point/station elevation =    12.800(Ft.)
Pipe length  =   199.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =    14.377(CFS)
Given pipe size =     24.00(In.)
Calculated individual pipe flow  =    14.377(CFS)
Normal flow depth in pipe =   12.42(In.)
Flow top width inside pipe =   23.99(In.)
Critical Depth =   16.41(In.)
Pipe flow velocity =      8.76(Ft/s)
Travel time through pipe =    0.38 min.
Time of concentration (TC) =    15.47 min.
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Process from Point/Station        9.000 to Point/Station        9.000
**** CONFLUENCE OF MAIN STREAMS ****
______________________________________________________________________________
The following data inside Main Stream is listed:
In Main Stream number: 2
Stream flow area =      5.712(Ac.)
Runoff from this stream =     14.377(CFS)
Time of concentration =   15.47 min.
Rainfall intensity =     2.740(In/Hr)
Summary of stream data:

Stream   Flow rate      TC            Rainfall Intensity
 No.       (CFS)       (min)                (In/Hr)


1       10.486      7.95               3.950
2       14.377     15.47               2.740
Largest stream flow has longer time of concentration
Qp =     14.377 + sum of
          Qb         Ia/Ib
          10.486 *    0.694 =      7.273
Qp =     21.650

Total of 2 main streams to confluence:
Flow rates before confluence point:
      10.486      14.377
Area of streams before confluence:
        5.696        5.712


Results of confluence:
Total flow rate =     21.650(CFS)
Time of concentration =    15.468 min.
Effective stream area after confluence  =     11.408(Ac.)


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Process from Point/Station        9.000 to Point/Station       28.000
**** PIPEFLOW TRAVEL TIME (User specified size) ****
______________________________________________________________________________
Upstream point/station elevation =    12.800(Ft.)
Downstream point/station elevation =     9.500(Ft.)
Pipe length  =    84.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =    21.650(CFS)
Given pipe size =     24.00(In.)
Calculated individual pipe flow  =    21.650(CFS)
Normal flow depth in pipe =   11.75(In.)
Flow top width inside pipe =   23.99(In.)
Critical Depth =   19.97(In.)
Pipe flow velocity =     14.15(Ft/s)
Travel time through pipe =    0.10 min.
Time of concentration (TC) =    15.57 min.


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station       28.000 to Point/Station       28.000
**** CONFLUENCE OF MINOR STREAMS ****
______________________________________________________________________________
Along Main Stream number: 1 in normal stream number 1
Stream flow area =     11.408(Ac.)
Runoff from this stream =     21.650(CFS)
Time of concentration =   15.57 min.
Rainfall intensity =     2.730(In/Hr)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station       33.000 to Point/Station       36.000
**** INITIAL AREA EVALUATION ****
```

```
Initial area flow distance =   202.000(Ft.)
Top (of initial area) elevation =    26.280(Ft.)
Bottom (of initial area) elevation =    20.690(Ft.)
Difference in elevation =     5.590(Ft.)
Slope =    0.02767  s(percent)=       2.77
TC = k(0.480)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration =    8.222 min.
Rainfall intensity =      3.879(In/Hr) for a   100.0 year storm
SINGLE FAMILY (1 Acre Lot)
Runoff Coefficient = 0.826
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 1.000
RI index for soil(AMC 2)  =  75.00
Pervious area fraction =  0.800; Impervious fraction =  0.200
Initial subarea runoff =      2.131(CFS)
Total initial stream area =        0.665(Ac.)
Pervious area fraction = 0.800


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station       36.000 to Point/Station       28.000
**** PIPEFLOW TRAVEL TIME (User specified size) ****
------------------------------------------------------------------------------
Upstream point/station elevation =    20.690(Ft.)
Downstream point/station elevation =     9.500(Ft.)
Pipe length  =   104.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =     2.131(CFS)
Given pipe size =     18.00(In.)
Calculated individual pipe flow  =     2.131(CFS)
Normal flow depth in pipe =    3.04(In.)
Flow top width inside pipe =   13.48(In.)
Critical Depth =    6.61(In.)
Pipe flow velocity =     10.82(Ft/s)
Travel time through pipe =    0.16 min.
Time of concentration (TC) =     8.38 min.


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station       28.000 to Point/Station       28.000
**** CONFLUENCE OF MINOR STREAMS ****
------------------------------------------------------------------------------
Along Main Stream number: 1 in normal stream number 2
Stream flow area =      0.665(Ac.)
Runoff from this stream =      2.131(CFS)
Time of concentration =    8.38 min.
Rainfall intensity =     3.838(In/Hr)
Summary of stream data:

Stream   Flow rate      TC            Rainfall Intensity
 No.       (CFS)       (min)                (In/Hr)


1       21.650     15.57                2.730
2        2.131      8.38                3.838
Largest stream flow has longer time of concentration
Qp =     21.650 + sum of
          Qb         Ia/Ib
           2.131 *    0.711 =      1.516
Qp =     23.166

Total of 2 streams to confluence:
Flow rates before confluence point:
      21.650       2.131
Area of streams before confluence:
       11.408        0.665
Results of confluence:
Total flow rate =     23.166(CFS)
Time of concentration =    15.567 min.
```

```
Effective stream area after confluence =     12.073(Ac.)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station       28.000 to Point/Station       38.000
**** PIPEFLOW TRAVEL TIME (User specified size) ****
________________________________________________________________________
Upstream point/station elevation =     9.500(Ft.)
Downstream point/station elevation =     4.000(Ft.)
Pipe length  =   359.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =    23.166(CFS)
Given pipe size =     30.00(In.)
Calculated individual pipe flow  =    23.166(CFS)
Normal flow depth in pipe =   14.23(In.)
Flow top width inside pipe =   29.96(In.)
Critical Depth =   19.66(In.)
Pipe flow velocity =     10.11(Ft/s)
Travel time through pipe =    0.59 min.
Time of concentration (TC) =    16.16 min.


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station       38.000 to Point/Station       38.000
**** CONFLUENCE OF MAIN STREAMS ****
________________________________________________________________________
The following data inside Main Stream is listed:
In Main Stream number: 1
Stream flow area =     12.073(Ac.)
Runoff from this stream =     23.166(CFS)
Time of concentration =   16.16 min.
Rainfall intensity =     2.675(In/Hr)
Program is now starting with Main Stream No. 2


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station       30.000 to Point/Station       31.000
**** INITIAL AREA EVALUATION ****
________________________________________________________________________
Initial area flow distance =   612.000(Ft.)
Top (of initial area) elevation =    42.000(Ft.)
Bottom (of initial area) elevation =    36.800(Ft.)
Difference in elevation =     5.200(Ft.)
Slope =    0.00850  s(percent)=       0.85
TC = k(0.420)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration =   14.194 min.
Rainfall intensity =      2.873(In/Hr) for a   100.0 year storm
SINGLE FAMILY (1/2 Acre Lot)
Runoff Coefficient = 0.828
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 1.000
RI index for soil(AMC 2)  =  75.00
Pervious area fraction =  0.600; Impervious fraction =  0.400
Initial subarea runoff =      2.948(CFS)
Total initial stream area =        1.240(Ac.)
Pervious area fraction = 0.600


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station       31.000 to Point/Station       32.000
**** PIPEFLOW TRAVEL TIME (User specified size) ****
________________________________________________________________________
Upstream point/station elevation =    32.000(Ft.)
Downstream point/station elevation =    28.000(Ft.)
Pipe length  =    82.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =     2.948(CFS)
Given pipe size =     18.00(In.)
Calculated individual pipe flow  =     2.948(CFS)
Normal flow depth in pipe =    4.33(In.)
Flow top width inside pipe =   15.39(In.)
```

```
Critical Depth =    7.83(In.)
Pipe flow velocity =      9.00(Ft/s)
Travel time through pipe =    0.15 min.
Time of concentration (TC) =    14.35 min.


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station       32.000 to Point/Station       35.000
**** IMPROVED CHANNEL TRAVEL TIME ****
______________________________________________________________________________
Upstream point elevation =    28.000(Ft.)
Downstream point elevation =    13.650(Ft.)
Channel length thru subarea  =   457.000(Ft.)
Channel base width     =    3.000(Ft.)
Slope or 'Z' of left channel bank =   2.000
Slope or 'Z' of right channel bank =   2.000
Manning's 'N'    = 0.015
Maximum depth of channel  =    4.000(Ft.)
Flow(q) thru subarea =      2.948(CFS)
Depth of flow =   0.174(Ft.), Average velocity =   5.052(Ft/s)
Channel flow top width =    3.697(Ft.)
Flow Velocity =    5.05(Ft/s)
Travel time  =    1.51 min.
Time of concentration =   15.85 min.

Sub-Channel No. 1 Critical depth =      0.289(Ft.)
  '     '       '     Critical flow top width =      4.156(Ft.)
  '     '       '     Critical flow velocity=    2.850(Ft/s)
  '     '       '     Critical flow area =      1.034(Sq.Ft)



++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station       35.000 to Point/Station       35.000
**** CONFLUENCE OF MINOR STREAMS ****
______________________________________________________________________________
Along Main Stream number: 2 in normal stream number 1
Stream flow area =      1.240(Ac.)
Runoff from this stream =      2.948(CFS)
Time of concentration =   15.85 min.
Rainfall intensity =     2.703(In/Hr)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station       31.000 to Point/Station       33.000
**** INITIAL AREA EVALUATION ****
______________________________________________________________________________
Initial area flow distance =   428.000(Ft.)
Top (of initial area) elevation =    36.800(Ft.)
Bottom (of initial area) elevation =    26.280(Ft.)
Difference in elevation =    10.520(Ft.)
Slope =    0.02096  s(percent)=       2.10
TC = k(0.420)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration =   10.946 min.
Rainfall intensity =      3.314(In/Hr) for a   100.0 year storm
SINGLE FAMILY (1/2 Acre Lot)
Runoff Coefficient = 0.836
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 1.000
RI index for soil(AMC 2)  =  75.00
Pervious area fraction =  0.600; Impervious fraction =  0.400
Initial subarea runoff =      1.801(CFS)
Total initial stream area =        0.650(Ac.)
Pervious area fraction = 0.600


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station       33.000 to Point/Station       34.000
**** PIPEFLOW TRAVEL TIME (User specified size) ****
```

```
Upstream point/station elevation =    22.900(Ft.)
Downstream point/station elevation =    20.450(Ft.)
Pipe length  =   102.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =     1.801(CFS)
Given pipe size =     18.00(In.)
Calculated individual pipe flow  =     1.801(CFS)
Normal flow depth in pipe =    4.04(In.)
Flow top width inside pipe =   15.02(In.)
Critical Depth =    6.06(In.)
Pipe flow velocity =      6.07(Ft/s)
Travel time through pipe =    0.28 min.
Time of concentration (TC) =    11.23 min.


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station       34.000 to Point/Station       35.000
**** IRREGULAR CHANNEL FLOW TRAVEL TIME ****
____________________________________________________________________________
Depth of flow =   0.088(Ft.), Average velocity =   2.351(Ft/s)
       ******* Irregular Channel Data ***********
----------------------------------------------------------------
Information entered for subchannel number 1 :
Point number      'X' coordinate     'Y' coordinate
       1              0.00              1.00
       2            100.00              0.00
       3            200.00              1.00
Manning's 'N' friction factor =   0.025
----------------------------------------------------------------
Sub-Channel flow  =      1.801(CFS)
  '     '       flow top width =     17.504(Ft.)
  '     '    velocity=    2.351(Ft/s)
  '     '       area =      0.766(Sq.Ft)
  '     '       Froude number =     1.981

Upstream point elevation =    20.450(Ft.)
Downstream point elevation =    13.650(Ft.)
Flow length =    67.000(Ft.)
Travel time  =    0.47 min.
Time of concentration =   11.70 min.
Depth of flow =   0.088(Ft.)
Average velocity =   2.351(Ft/s)
Total irregular channel flow =     1.801(CFS)
Irregular channel normal depth above invert elev. =   0.088(Ft.)
Average velocity of channel(s) =   2.351(Ft/s)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station       35.000 to Point/Station       35.000
**** CONFLUENCE OF MINOR STREAMS ****
____________________________________________________________________________
Along Main Stream number: 2 in normal stream number 2
Stream flow area =      0.650(Ac.)
Runoff from this stream =      1.801(CFS)
Time of concentration =   11.70 min.
Rainfall intensity =     3.194(In/Hr)
Summary of stream data:

Stream   Flow rate      TC            Rainfall Intensity
 No.       (CFS)       (min)                (In/Hr)


1        2.948     15.85                2.703
2        1.801     11.70                3.194
Largest stream flow has longer time of concentration
Qp =      2.948 + sum of
          Qb         Ia/Ib
           1.801 *    0.846 =      1.524
Qp =      4.472

Total of 2 streams to confluence:
```

```
Flow rates before confluence point:
       2.948       1.801
Area of streams before confluence:
        1.240        0.650
Results of confluence:
Total flow rate =      4.472(CFS)
Time of concentration =    15.853 min.
Effective stream area after confluence =      1.890(Ac.)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station       35.000 to Point/Station       37.000
**** IRREGULAR CHANNEL FLOW TRAVEL TIME ****
________________________________________________________________________
Depth of flow =   0.145(Ft.), Average velocity =   2.123(Ft/s)
       ******* Irregular Channel Data ***********
------------------------------------------------------------------
Information entered for subchannel number 1 :
Point number      'X' coordinate     'Y' coordinate
       1              0.00              1.00
       2            100.00              0.00
       3            200.00              1.00
Manning's 'N' friction factor =   0.025
------------------------------------------------------------------
Sub-Channel flow  =      4.472(CFS)
  '     '       flow top width =     29.026(Ft.)
  '     '    velocity=    2.123(Ft/s)
  '     '       area =      2.106(Sq.Ft)
  '     '       Froude number =     1.389

Upstream point elevation =    13.650(Ft.)
Downstream point elevation =     8.000(Ft.)
Flow length =   134.000(Ft.)
Travel time  =    1.05 min.
Time of concentration =   16.91 min.
Depth of flow =   0.145(Ft.)
Average velocity =   2.123(Ft/s)
Total irregular channel flow =     4.472(CFS)
Irregular channel normal depth above invert elev. =   0.145(Ft.)
Average velocity of channel(s) =   2.123(Ft/s)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station       37.000 to Point/Station       38.000
**** PIPEFLOW TRAVEL TIME (User specified size) ****
________________________________________________________________________
Upstream point/station elevation =     8.000(Ft.)
Downstream point/station elevation =     4.000(Ft.)
Pipe length  =    54.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =     4.472(CFS)
Given pipe size =     24.00(In.)
Calculated individual pipe flow  =     4.472(CFS)
Normal flow depth in pipe =    4.38(In.)
Flow top width inside pipe =   18.54(In.)
Critical Depth =    8.91(In.)
Pipe flow velocity =     11.41(Ft/s)
Travel time through pipe =    0.08 min.
Time of concentration (TC) =    16.98 min.


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station       38.000 to Point/Station       38.000
**** CONFLUENCE OF MAIN STREAMS ****
________________________________________________________________________
The following data inside Main Stream is listed:
In Main Stream number: 2
Stream flow area =      1.890(Ac.)
Runoff from this stream =      4.472(CFS)
Time of concentration =   16.98 min.
Rainfall intensity =     2.603(In/Hr)
Summary of stream data:
```

```
Stream   Flow rate      TC            Rainfall Intensity
 No.       (CFS)       (min)                (In/Hr)


1       23.166     16.16               2.675
2        4.472     16.98               2.603
Largest stream flow has longer or shorter time of concentration
Qp =     23.166 + sum of
          Qa          Tb/Ta
           4.472 *    0.951 =      4.255
Qp =     27.421

Total of 2 main streams to confluence:
Flow rates before confluence point:
      23.166       4.472
Area of streams before confluence:
       12.073        1.890


Results of confluence:
Total flow rate =     27.421(CFS)
Time of concentration =    16.159 min.
Effective stream area after confluence  =     13.963(Ac.)
End of computations, total study area =           13.96 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.

Area averaged pervious area fraction(Ap) = 0.491
Area averaged RI index number =  79.0
```

Appendix H

Noise Report

APPENDIX H-1

Field Noise Data Sheets

DUDEK
CREATOR OF KERATA TECHNOLOGY

FIELD DATA REPORT

Field Noise Measurement Data

Record: 854	
Project Name	*RDA Curci*
Observer(s)	*Connor Burke*
Date	*2018-02-23*

Meteorological Conditions	
Temp (F)	*51*
Humidity % (R.H.)	*29*
Wind	*Light*
Wind Speed (MPH)	*8*
Wind Direction	*East*
Sky	*Partly Cloudy*

Instrument and Calibrator Information	
Instrument Name List	*(ENC) Rion NL-52*
Instrument Name	*(ENC) Rion NL-52*
Instrument Name Lookup Key	*(ENC) Rion NL-52*
Manufacturer	*Rion*
Model	*NL-52*
Serial Number	*553896*
Calibrator Name	*(ENC) LD CAL150*
Calibrator Name	*(ENC) LD CAL150*
Calibrator Name Lookup Key	*(ENC) LD CAL150*
Calibrator Manufacturer	*Larson Davis*
Calibrator Model	*LD CAL150*
Calibrator Serial #	*5152*
Pre-Test (dBA SPL)	*94*
Post-Test (dBA SPL)	*94*
Windscreen	*Yes*
Weighting?	*A-WTD*
Slow/Fast?	*Slow*
ANSI?	*Yes*

Recordings	
Record #	*1*
Site ID	*ST2*
Site Location Lat/Long	*33.596960, -117.167317*
Begin (Time)	*09:56:00*
End (Time)	*10:11:00*
Leq	*55*
Lmax	*65.1*
Lmin	*46.8*
Other Lx?	*L90, L50, L10*
L90	*49.2*
L50	*52*
L10	*58.4*
Other Lx (Specify Metric)	*L*
Primary Noise Source	*HVAC / pool pumps.*
Other Noise Sources (Background)	*Birds, Distant Aircraft, Distant Traffic*
Other Noise Sources Additional Description	*Backup alarms. Hvac. School construction site.*
Is the same instrument and calibrator being used as previously noted?	*Yes*
Are the meteorological conditions the same as previously noted?	*Yes*

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Description / Photos

Site Photos

Photo	
Comments / Description	*Facing northwest towards Clinton Keith.*

Recordings

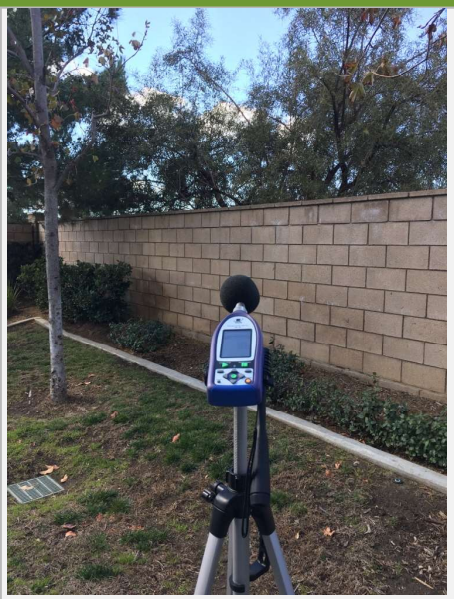
Record #	*2*
Site ID	*ST3*
Site Location Lat/Long	*33.598021, -117.166866*
Begin (Time)	*10:18:00*
End (Time)	*10:28:00*
Leq	*54.3*
Lmax	*65.8*
Lmin	*44.2*
Other Lx?	*L90, L50, L10*
L90	*47.3*
L50	*52.6*
L10	*57.8*
Other Lx (Specify Metric)	*L*
Primary Noise Source	*Traffic*
Other Noise Sources (Background)	*Birds, Rustling Leaves*
Other Noise Sources Additional Description	*Backup alarms.*
Is the same instrument and calibrator being used as previously noted?	*Yes*
Are the meteorological conditions the same as previously noted?	*Yes*

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Source Info and Traffic Counts	
Number of Lanes	*5*
Lane Width (feet)	*10*
Roadway Width (feet)	*50*
Roadway Width (m)	*15*
Distance to Roadway (feet)	*60*
Distance to Roadway (m)	*60*
Distance Measured to Centerline or Edge of Pavement?	*Centerline*
Estimated Vehicle Speed (MPH)	*40*
Count Duration (Min)	*10*

Traffic Counts	
Vehicle Count Summary	*Autos 102, MT 1, HT 1, Buses 0, MC 0*
Count Duration (minutes)	*0*
Counting Both Directions?	*Yes*
Vehicle Count Tally	
Select Method for Vehicle Counts	*Use Counter (+/-)*
Autos	*102*
Medium Trucks	*1*
Heavy Trucks	*1*
Buses	*0*
Motorcycles	*0*

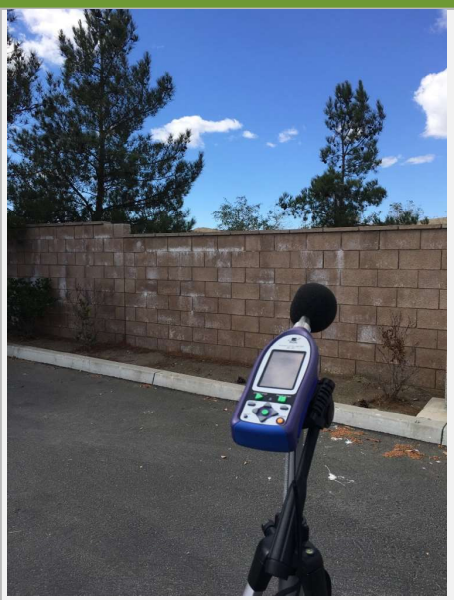
Description / Photos

Site Photos	
Photo	
Comments / Description	*Facing south east towards Clinton Keith.*

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Recordings	
Record #	*3*
Site ID	*ST4*
Site Location Lat/Long	*33.600975, -117.166889*
Begin (Time)	*10:39:00*
End (Time)	*10:49:00*
Leq	*52.1*
Lmax	*63.6*
Lmin	*43.9*
Other Lx?	*L90, L50, L10*
L90	*45.4*
L50	*48.2*
L10	*55.9*
Other Lx (Specify Metric)	*L*
Primary Noise Source	*Construction noise.*
Other Noise Sources (Background)	*Birds, Distant Aircraft, Rustling Leaves*
Other Noise Sources Additional Description	*Backup alarms. Excavator.*
Is the same instrument and calibrator being used as previously noted?	*Yes*
Are the meteorological conditions the same as previously noted?	*Yes*

Description / Photos

Site Photos	
Photo	
Comments / Description	*Facing west towards project site.*

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DUDEK
CREATOR OF KERATA TECHNOLOGY

FIELD DATA REPORT

Recordings	
Record #	4
Site ID	ST1
Site Location Lat/Long	33.597558, -117.172063
Begin (Time)	10:56:00
End (Time)	11:06:00
Leq	55.6
Lmax	71.3
Lmin	46.3
Other Lx?	L90, L50, L10
L90	48.9
L50	52
L10	55.4
Other Lx (Specify Metric)	L
Primary Noise Source	Traffic
Other Noise Sources (Background)	Birds, Distant Traffic, Rustling Leaves
Other Noise Sources Additional Description	Siren. Hvac
Is the same instrument and calibrator being used as previously noted?	Yes
Are the meteorological conditions the same as previously noted?	Yes

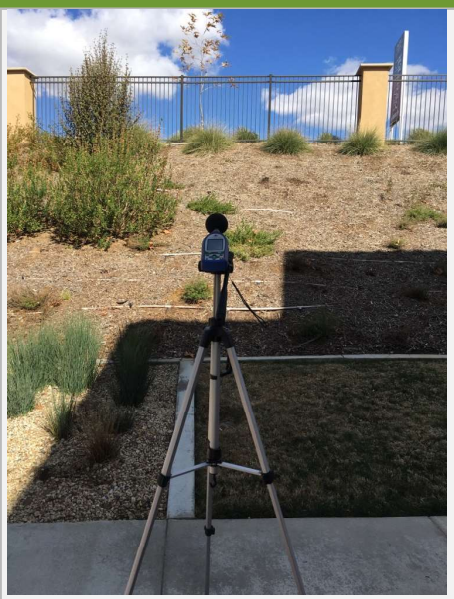
Source Info and Traffic Counts	
Number of Lanes	0
Lane Width (feet)	10
Roadway Width (feet)	0
Roadway Width (m)	0
Distance to Roadway (feet)	50
Distance to Roadway (m)	50
Distance Measured to Centerline or Edge of Pavement?	Centerline
Estimated Vehicle Speed (MPH)	40
Count Duration (Min)	10

Traffic Counts	
Vehicle Count Summary	Autos 0, MT 0, HT 0, Buses 0, MC 0
Count Duration (minutes)	0
Counting Both Directions?	Yes
Vehicle Count Tally	
Select Method for Vehicle Counts	Enter Manually
Autos	0
Number of Vehicles - Autos	123
Medium Trucks	0
Number of Vehicles - Medium Trucks	3
Heavy Trucks	0
Number of Vehicles - Heavy Trucks	2
Buses	0
Motorcycles	0

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Description / Photos

Site Photos

Photo	
Comments / Description	*Facing north towards Clinton Keith*

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DUDEK
CREATOR OF KERATA TECHNOLOGY

FIELD DATA REPORT

Field Noise Measurement Data

Record: 1181	
Project Name	*Costco Murietta*
Observer(s)	*Connor Burke*
Date	*2019-08-13*

Meteorological Conditions	
Temp (F)	*89*
Humidity % (R.H.)	*28*
Wind	*Light*
Wind Speed (MPH)	*2*
Wind Direction	*East*
Sky	*Sunny*

Instrument and Calibrator Information	
Instrument Name List	*(ENC) Rion NL-52*
Instrument Name	*(ENC) Rion NL-52*
Instrument Name Lookup Key	*(ENC) Rion NL-52*
Manufacturer	*Rion*
Model	*NL-52*
Serial Number	*553896*
Calibrator Name	*(ENC) LD CAL150*
Calibrator Name	*(ENC) LD CAL150*
Calibrator Name Lookup Key	*(ENC) LD CAL150*
Calibrator Manufacturer	*Larson Davis*
Calibrator Model	*LD CAL150*
Calibrator Serial #	*5152*
Pre-Test (dBA SPL)	*94*
Post-Test (dBA SPL)	*94*
Windscreen	*Yes*
Weighting?	*A-WTD*
Slow/Fast?	*Slow*
ANSI?	*Yes*

Monitoring	
Record #	*1*
Site ID	*ST5*
Site Location Lat/Long	*33.601058, -117.166876*
Begin (Time)	*10:34:00*
End (Time)	*10:49:00*
Leq	*40.6*
Lmax	*49.7*
Lmin	*37.5*
Other Lx?	*L90, L50, L10*
L90	*38.7*
L50	*40.1*
L10	*42.1*
Other Lx (Specify Metric)	*L*
Primary Noise Source	*Construction on project site.*
Other Noise Sources (Background)	*Birds, Distant Aircraft, Distant Traffic*
Is the same instrument and calibrator being used as previously noted?	*Yes*
Are the meteorological conditions the same as previously noted?	*Yes*

Description / Photos

Site Photos

Photo	
	
Comments / Description	*Facing project site.*

APPENDIX H-2

Construction Noise Modeling
Input and Output

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 4/4/2019
Case Description Curci Murrieta - Site Prep

---- Receptor #1 ----

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Resi's and Schoc	Residential	60	55	50

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Dozer	No	40		81.7	175	0
Dozer	No	40		81.7	185	0
Backhoe	No	40		77.6	200	0
Front End Loader	No	40		79.1	200	0

	Results Calculated (dBA)		Noise Limits (dBA) Day		Evening	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq
Dozer	70.8	66.8	N/A	N/A	N/A	N/A
Dozer	70.3	66.3	N/A	N/A	N/A	N/A
Backhoe	65.5	61.5	N/A	N/A	N/A	N/A
Front End Loader	67.1	63.1	N/A	N/A	N/A	N/A
Total	70.8	71	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Resi's and Schoc	Residential	60	55	50

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Dozer	No	40		81.7	450	0
Dozer	No	40		81.7	450	0
Backhoe	No	40		77.6	450	0
Front End Loader	No	40		79.1	450	0

	Results Calculated (dBA)		Noise Limits (dBA)			

Equipment	*Lmax	Leq	Day Lmax	Day Leq	Evening Lmax	Evening Leq
Dozer	62.6	58.6	N/A	N/A	N/A	N/A
Dozer	62.6	58.6	N/A	N/A	N/A	N/A
Backhoe	58.5	54.5	N/A	N/A	N/A	N/A
Front End Loader	60	56	N/A	N/A	N/A	N/A
Total	62.6	63.3	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #3 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Resi's to the eas	Residential	60	55	50

Equipment

Description	Impact Device	Usage(%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Dozer	No	40		81.7	1400	0
Dozer	No	40		81.7	1425	0
Backhoe	No	40		77.6	1450	0
Front End Loader	No	40		79.1	1450	0

Results

	Calculated (dBA)		Noise Limits (dBA)			
Equipment	*Lmax	Leq	Day Lmax	Day Leq	Evening Lmax	Evening Leq
Dozer	52.7	48.7	N/A	N/A	N/A	N/A
Dozer	52.6	48.6	N/A	N/A	N/A	N/A
Backhoe	48.3	44.3	N/A	N/A	N/A	N/A
Front End Loader	49.9	45.9	N/A	N/A	N/A	N/A
Total	52.7	53.3	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #4 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Resi's to the eas	Residential	60	55	50

Equipment

Description	Impact Device	Usage(%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Dozer	No	40		81.7	1600	0
Dozer	No	40		81.7	1600	0
Backhoe	No	40		77.6	1600	0
Front End Loader	No	40		79.1	1600	0

			Results			
	Calculated (dBA)			Noise Limits (dBA)		
			Day		Evening	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq
Dozer	51.6	47.6	N/A	N/A	N/A	N/A
Dozer	51.6	47.6	N/A	N/A	N/A	N/A
Backhoe	47.5	43.5	N/A	N/A	N/A	N/A
Front End Loader	49	45	N/A	N/A	N/A	N/A
Total	51.6	52.3	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 4/4/2019
Case Description Curci Murrieta - Grading

			---- Receptor #1 ----		
	Baselines (dBA)				
Description	Land Use	Daytime	Evening	Night	
Resi's and Schoc	Residential	60	55	50	

			Equipment			
			Spec	Actual	Receptor	Estimated
	Impact		Lmax	Lmax	Distance	Shielding
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)
Excavator	No	40		80.7	175	0
Grader	No	40	85		185	0
Dozer	No	40		81.7	200	0
Front End Loader	No	40		79.1	200	0
Tractor	No	40	84		180	0
Scraper	No	40		83.6	190	0
Scraper	No	40		83.6	200	0
Scraper	No	40		83.6	200	0

			Results			
	Calculated (dBA)			Noise Limits (dBA)		
			Day		Evening	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq
Excavator	69.8	65.8	N/A	N/A	N/A	N/A
Grader	73.6	69.7	N/A	N/A	N/A	N/A
Dozer	69.6	65.6	N/A	N/A	N/A	N/A
Front End Loader	67.1	63.1	N/A	N/A	N/A	N/A
Tractor	72.9	68.9	N/A	N/A	N/A	N/A
Scraper	72	68	N/A	N/A	N/A	N/A

Scraper		71.5	67.6	N/A	N/A	N/A	N/A
Scraper		71.5	67.6	N/A	N/A	N/A	N/A
	Total	73.6	76.5	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Resi's and Schoc	Residential	60	55	50

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Excavator	No	40		80.7	450	0
Grader	No	40	85		450	0
Dozer	No	40		81.7	450	0
Front End Loader	No	40		79.1	450	0
Tractor	No	40	84		450	0
Scraper	No	40		83.6	450	0
Scraper	No	40		83.6	450	0
Scraper	No	40		83.6	450	0

Results

	Calculated (dBA)		Noise Limits (dBA)			
			Day		Evening	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq
Excavator	61.6	57.6	N/A	N/A	N/A	N/A
Grader	65.9	61.9	N/A	N/A	N/A	N/A
Dozer	62.6	58.6	N/A	N/A	N/A	N/A
Front End Loader	60	56	N/A	N/A	N/A	N/A
Tractor	64.9	60.9	N/A	N/A	N/A	N/A
Scraper	64.5	60.5	N/A	N/A	N/A	N/A
Scraper	64.5	60.5	N/A	N/A	N/A	N/A
Scraper	64.5	60.5	N/A	N/A	N/A	N/A
Total	65.9	69	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #3 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Resi's to the eas	Residential	60	55	50

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)

Excavator	No	40		80.7	1400	0
Grader	No	40	85		1425	0
Dozer	No	40		81.7	1450	0
Front End Loader	No	40		79.1	1450	0
Tractor	No	40	84		1425	0
Scraper	No	40		83.6	1450	0
Scraper	No	40		83.6	1475	0
Scraper	No	40		83.6	1450	0

Results

	Calculated (dBA)		Noise Limits (dBA)			
			Day		Evening	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq
Excavator	51.8	47.8	N/A	N/A	N/A	N/A
Grader	55.9	51.9	N/A	N/A	N/A	N/A
Dozer	52.4	48.4	N/A	N/A	N/A	N/A
Front End Loader	49.9	45.9	N/A	N/A	N/A	N/A
Tractor	54.9	50.9	N/A	N/A	N/A	N/A
Scraper	54.3	50.4	N/A	N/A	N/A	N/A
Scraper	54.2	50.2	N/A	N/A	N/A	N/A
Scraper	54.3	50.4	N/A	N/A	N/A	N/A
Total	55.9	58.9	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #4 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Resi's to the eas	Residential	60	55	50

			Equipment Spec	Actual	Receptor	Estimated
	Impact		Lmax	Lmax	Distance	Shielding
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)
Excavator	No	40		80.7	1600	0
Grader	No	40	85		1600	0
Dozer	No	40		81.7	1600	0
Front End Loader	No	40		79.1	1600	0
Tractor	No	40	84		1600	0
Scraper	No	40		83.6	1600	0
Scraper	No	40		83.6	1600	0
Scraper	No	40		83.6	1600	0

Results

	Calculated (dBA)		Noise Limits (dBA)			
			Day		Evening	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq
Excavator	50.6	46.6	N/A	N/A	N/A	N/A

Grader	54.9	50.9	N/A	N/A	N/A	N/A
Dozer	51.6	47.6	N/A	N/A	N/A	N/A
Front End Loader	49	45	N/A	N/A	N/A	N/A
Tractor	53.9	49.9	N/A	N/A	N/A	N/A
Scraper	53.5	49.5	N/A	N/A	N/A	N/A
Scraper	53.5	49.5	N/A	N/A	N/A	N/A
Scraper	53.5	49.5	N/A	N/A	N/A	N/A
Total	54.9	58	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 4/4/2019

Case Description Curci Murrieta - Buiilding Construction

---- Receptor #1 ----

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Resi's and Schoc	Residential	60	55	50

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Crane	No	16		80.6	175	0
Man Lift	No	20		74.7	185	0
Man Lift	No	20		74.7	200	0
Generator	No	50		80.6	200	0
Generator	No	50		80.6	200	0
Generator	No	50		80.6	210	0
Generator	No	50		80.6	200	0
Generator	No	50		80.6	200	0
Generator	No	50		80.6	200	0
Generator	No	50		80.6	190	0
Generator	No	50		80.6	200	0
Generator	No	50		80.6	200	0
Generator	No	50		80.6	220	0
Generator	No	50		80.6	250	0
Generator	No	50		80.6	220	0
Backhoe	No	40		77.6	190	0
Front End Loader	No	40		79.1	200	0
Tractor	No	40	84		200	0

Results

Calculated (dBA)	Noise Limits (dBA)

Equipment	*Lmax	Leq	Day Lmax	Day Leq	Evening Lmax	Evening Leq
Crane	69.7	61.7	N/A	N/A	N/A	N/A
Man Lift	63.3	56.3	N/A	N/A	N/A	N/A
Man Lift	62.7	55.7	N/A	N/A	N/A	N/A
Generator	68.6	65.6	N/A	N/A	N/A	N/A
Generator	68.6	65.6	N/A	N/A	N/A	N/A
Generator	68.2	65.2	N/A	N/A	N/A	N/A
Generator	68.6	65.6	N/A	N/A	N/A	N/A
Generator	68.6	65.6	N/A	N/A	N/A	N/A
Generator	68.6	65.6	N/A	N/A	N/A	N/A
Generator	69	66	N/A	N/A	N/A	N/A
Generator	68.6	65.6	N/A	N/A	N/A	N/A
Generator	68.6	65.6	N/A	N/A	N/A	N/A
Generator	67.8	64.8	N/A	N/A	N/A	N/A
Generator	66.7	63.6	N/A	N/A	N/A	N/A
Generator	67.8	64.8	N/A	N/A	N/A	N/A
Backhoe	66	62	N/A	N/A	N/A	N/A
Front End Loader	67.1	63.1	N/A	N/A	N/A	N/A
Tractor	72	68	N/A	N/A	N/A	N/A
Total	72	77.2	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Resi's and Schoc	Residential	60	55	50

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Crane	No	16		80.6	450	0
Man Lift	No	20		74.7	450	0
Man Lift	No	20		74.7	450	0
Generator	No	50		80.6	450	0
Generator	No	50		80.6	450	0
Generator	No	50		80.6	450	0
Generator	No	50		80.6	450	0
Generator	No	50		80.6	450	0
Generator	No	50		80.6	450	0
Generator	No	50		80.6	450	0
Generator	No	50		80.6	450	0
Generator	No	50		80.6	450	0
Generator	No	50		80.6	450	0
Generator	No	50		80.6	450	0
Generator	No	50		80.6	450	0
Generator	No	50		80.6	450	0
Generator	No	50		80.6	450	0

Backhoe	No	40		77.6	450	0
Front End Loader	No	40		79.1	450	0
Tractor	No	40	84		450	0

Results

	Calculated (dBA)		Noise Limits (dBA)			
			Day		Evening	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq
Crane	61.5	53.5	N/A	N/A	N/A	N/A
Man Lift	55.6	48.6	N/A	N/A	N/A	N/A
Man Lift	55.6	48.6	N/A	N/A	N/A	N/A
Generator	61.5	58.5	N/A	N/A	N/A	N/A
Generator	61.5	58.5	N/A	N/A	N/A	N/A
Generator	61.5	58.5	N/A	N/A	N/A	N/A
Generator	61.5	58.5	N/A	N/A	N/A	N/A
Generator	61.5	58.5	N/A	N/A	N/A	N/A
Generator	61.5	58.5	N/A	N/A	N/A	N/A
Generator	61.5	58.5	N/A	N/A	N/A	N/A
Generator	61.5	58.5	N/A	N/A	N/A	N/A
Generator	61.5	58.5	N/A	N/A	N/A	N/A
Generator	61.5	58.5	N/A	N/A	N/A	N/A
Generator	61.5	58.5	N/A	N/A	N/A	N/A
Generator	61.5	58.5	N/A	N/A	N/A	N/A
Backhoe	58.5	54.5	N/A	N/A	N/A	N/A
Front End Loader	60	56	N/A	N/A	N/A	N/A
Tractor	64.9	60.9	N/A	N/A	N/A	N/A
Total	64.9	70.4	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #3 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Resi's to the eas	Residential	60	55	50

			Equipment			
			Spec	Actual	Receptor	Estimated
	Impact		Lmax	Lmax	Distance	Shielding
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)
Crane	No	16		80.6	1400	0
Man Lift	No	20		74.7	1425	0
Man Lift	No	20		74.7	1450	0
Generator	No	50		80.6	1450	0
Generator	No	50		80.6	1425	0
Generator	No	50		80.6	1425	0
Generator	No	50		80.6	1450	0
Generator	No	50		80.6	1475	0
Generator	No	50		80.6	1475	0

Generator	No	50		80.6	1425	0
Generator	No	50		80.6	1450	0
Generator	No	50		80.6	1450	0
Generator	No	50		80.6	1500	0
Generator	No	50		80.6	1475	0
Generator	No	50		80.6	1500	0
Backhoe	No	40		77.6	1475	0
Front End Loader	No	40		79.1	1450	0
Tractor	No	40	84		1450	0

Results

	Calculated (dBA)		Noise Limits (dBA)			
			Day		Evening	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq
Crane	51.6	43.6	N/A	N/A	N/A	N/A
Man Lift	45.6	38.6	N/A	N/A	N/A	N/A
Man Lift	45.5	38.5	N/A	N/A	N/A	N/A
Generator	51.4	48.4	N/A	N/A	N/A	N/A
Generator	51.5	48.5	N/A	N/A	N/A	N/A
Generator	51.5	48.5	N/A	N/A	N/A	N/A
Generator	51.4	48.4	N/A	N/A	N/A	N/A
Generator	51.2	48.2	N/A	N/A	N/A	N/A
Generator	51.2	48.2	N/A	N/A	N/A	N/A
Generator	51.5	48.5	N/A	N/A	N/A	N/A
Generator	51.4	48.4	N/A	N/A	N/A	N/A
Generator	51.4	48.4	N/A	N/A	N/A	N/A
Generator	51.1	48.1	N/A	N/A	N/A	N/A
Generator	51.2	48.2	N/A	N/A	N/A	N/A
Generator	51.1	48.1	N/A	N/A	N/A	N/A
Backhoe	48.2	44.2	N/A	N/A	N/A	N/A
Front End Loader	49.9	45.9	N/A	N/A	N/A	N/A
Tractor	54.8	50.8	N/A	N/A	N/A	N/A
Total	54.8	60.2	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #4 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Resi's to the eas	Residential	60	55	50

			Equipment			
			Spec	Actual	Receptor	Estimated
	Impact		Lmax	Lmax	Distance	Shielding
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)
Crane	No	16		80.6	1600	0
Man Lift	No	20		74.7	1600	0
Man Lift	No	20		74.7	1600	0

Generator	No	50		80.6	1600	0
Generator	No	50		80.6	1600	0
Generator	No	50		80.6	1600	0
Generator	No	50		80.6	1600	0
Generator	No	50		80.6	1600	0
Generator	No	50		80.6	1600	0
Generator	No	50		80.6	1600	0
Generator	No	50		80.6	1600	0
Generator	No	50		80.6	1600	0
Generator	No	50		80.6	1600	0
Generator	No	50		80.6	1600	0
Generator	No	50		80.6	1600	0
Backhoe	No	40		77.6	1600	0
Front End Loader	No	40		79.1	1600	0
Tractor	No	40	84		1600	0

			Results			
	Calculated (dBA)		Noise Limits (dBA)			
			Day		Evening	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq
Crane	50.4	42.5	N/A	N/A	N/A	N/A
Man Lift	44.6	37.6	N/A	N/A	N/A	N/A
Man Lift	44.6	37.6	N/A	N/A	N/A	N/A
Generator	50.5	47.5	N/A	N/A	N/A	N/A
Generator	50.5	47.5	N/A	N/A	N/A	N/A
Generator	50.5	47.5	N/A	N/A	N/A	N/A
Generator	50.5	47.5	N/A	N/A	N/A	N/A
Generator	50.5	47.5	N/A	N/A	N/A	N/A
Generator	50.5	47.5	N/A	N/A	N/A	N/A
Generator	50.5	47.5	N/A	N/A	N/A	N/A
Generator	50.5	47.5	N/A	N/A	N/A	N/A
Generator	50.5	47.5	N/A	N/A	N/A	N/A
Generator	50.5	47.5	N/A	N/A	N/A	N/A
Generator	50.5	47.5	N/A	N/A	N/A	N/A
Generator	50.5	47.5	N/A	N/A	N/A	N/A
Backhoe	47.5	43.5	N/A	N/A	N/A	N/A
Front End Loader	49	45	N/A	N/A	N/A	N/A
Tractor	53.9	49.9	N/A	N/A	N/A	N/A
Total	53.9	59.3	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Case Description Curci Murrieta - Trenching

---- Receptor #1 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Resi's and Schoc	Residential	60	55	50

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Excavator	No	40		80.7	175	0
Front End Loader	No	40		79.1	185	0
Backhoe	No	40		77.6	200	0

Results

	Calculated (dBA)		Noise Limits (dBA)			
			Day		Evening	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq
Excavator	69.8	65.8	N/A	N/A	N/A	N/A
Front End Loader	67.7	63.8	N/A	N/A	N/A	N/A
Backhoe	65.5	61.5	N/A	N/A	N/A	N/A
Total	69.8	68.8	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Resi's and Schoc	Residential	60	55	50

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Excavator	No	40		80.7	450	0
Front End Loader	No	40		79.1	450	0
Backhoe	No	40		77.6	450	0

Results

	Calculated (dBA)		Noise Limits (dBA)			
			Day		Evening	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq
Excavator	61.6	57.6	N/A	N/A	N/A	N/A
Front End Loader	60	56	N/A	N/A	N/A	N/A
Backhoe	58.5	54.5	N/A	N/A	N/A	N/A
Total	61.6	61	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #3 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Resi's to the eas	Residential	60	55	50

			Equipment			
			Spec	Actual	Receptor	Estimated
	Impact		Lmax	Lmax	Distance	Shielding
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)
Excavator	No	40		80.7	1400	0
Front End Loader	No	40		79.1	1425	0
Backhoe	No	40		77.6	1450	0

Results

	Calculated (dBA)		Noise Limits (dBA)			
			Day		Evening	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq
Excavator	51.8	47.8	N/A	N/A	N/A	N/A
Front End Loader	50	46	N/A	N/A	N/A	N/A
Backhoe	48.3	44.3	N/A	N/A	N/A	N/A
Total	51.8	51	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #4 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Resi's to the eas	Residential	60	55	50

			Equipment			
			Spec	Actual	Receptor	Estimated
	Impact		Lmax	Lmax	Distance	Shielding
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)
Excavator	No	40		80.7	1600	0
Front End Loader	No	40		79.1	1600	0
Backhoe	No	40		77.6	1600	0

Results

	Calculated (dBA)		Noise Limits (dBA)			
			Day		Evening	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq
Excavator	50.6	46.6	N/A	N/A	N/A	N/A
Front End Loader	49	45	N/A	N/A	N/A	N/A
Backhoe	47.5	43.5	N/A	N/A	N/A	N/A
Total	50.6	50	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 4/4/2019
Case Description Curci Murrieta - Paving

---- Receptor #1 ----

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Resi's and Schoc	Residential	60	55	50

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Backhoe	No	40		77.6	175	0
Front End Loader	No	40		79.1	185	0
Paver	No	50		77.2	200	0
Roller	No	20		80	185	0
Roller	No	20		80	200	0

Equipment	Calculated (dBA) *Lmax	Leq	Results Day Lmax	Leq	Noise Limits (dBA) Evening Lmax	Leq
Backhoe	66.7	62.7	N/A	N/A	N/A	N/A
Front End Loader	67.7	63.8	N/A	N/A	N/A	N/A
Paver	65.2	62.2	N/A	N/A	N/A	N/A
Roller	68.6	61.6	N/A	N/A	N/A	N/A
Roller	68	61	N/A	N/A	N/A	N/A
Total	68.6	69.3	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Resi's and Schoc	Residential	60	55	50

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Backhoe	No	40		77.6	450	0
Front End Loader	No	40		79.1	450	0
Paver	No	50		77.2	450	0

Roller	No	20		80	450	0
Roller	No	20		80	450	0

Results

	Calculated (dBA)		Noise Limits (dBA)			
			Day		Evening	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq
Backhoe	58.5	54.5	N/A	N/A	N/A	N/A
Front End Loader	60	56	N/A	N/A	N/A	N/A
Paver	58.1	55.1	N/A	N/A	N/A	N/A
Roller	60.9	53.9	N/A	N/A	N/A	N/A
Roller	60.9	53.9	N/A	N/A	N/A	N/A
Total	60.9	61.8	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #3 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Resi's to the eas	Residential	60	55	50

Equipment

Description	Impact Device	Usage(%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Backhoe	No	40		77.6	1400	0
Front End Loader	No	40		79.1	1425	0
Paver	No	50		77.2	1450	0
Roller	No	20		80	1425	0
Roller	No	20		80	1420	0

Results

	Calculated (dBA)		Noise Limits (dBA)			
			Day		Evening	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq
Backhoe	48.6	44.6	N/A	N/A	N/A	N/A
Front End Loader	50	46	N/A	N/A	N/A	N/A
Paver	48	45	N/A	N/A	N/A	N/A
Roller	50.9	43.9	N/A	N/A	N/A	N/A
Roller	50.9	43.9	N/A	N/A	N/A	N/A
Total	50.9	51.8	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #4 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Resi's to the eas	Residential	60	55	50

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Backhoe	No	40		77.6	1600	0
Front End Loader	No	40		79.1	1600	0
Paver	No	50		77.2	1600	0
Roller	No	20		80	1600	0
Roller	No	20		80	1600	0

Results

	Calculated (dBA)		Noise Limits (dBA)			
			Day		Evening	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq
Backhoe	47.5	43.5	N/A	N/A	N/A	N/A
Front End Loader	49	45	N/A	N/A	N/A	N/A
Paver	47.1	44.1	N/A	N/A	N/A	N/A
Roller	49.9	42.9	N/A	N/A	N/A	N/A
Roller	49.9	42.9	N/A	N/A	N/A	N/A
Total	49.9	50.8	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 4/4/2019
Case Description: Curci Murrieta - Architectural Coatings

---- Receptor #1 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Resi's and Schoc	Residential	60	55	50

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compressor (air)	No	40		77.7	175	0
Compressor (air)	No	40		77.7	185	0

Results

	Calculated (dBA)		Noise Limits (dBA)			
			Day		Evening	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq
Compressor (air)	66.8	62.8	N/A	N/A	N/A	N/A
Compressor (air)	66.3	62.3	N/A	N/A	N/A	N/A

	Total	66.8	65.6	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Resi's and Schoc	Residential	60	55	50

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compressor (air)	No	40		77.7	450	0
Compressor (air)	No	40		77.7	450	0

Results

	Calculated (dBA)		Noise Limits (dBA)			
			Day		Evening	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq
Compressor (air)	58.6	54.6	N/A	N/A	N/A	N/A
Compressor (air)	58.6	54.6	N/A	N/A	N/A	N/A
Total	58.6	57.6	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #3 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Resi's to the eas	Residential	60	55	50

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compressor (air)	No	40		77.7	1400	0
Compressor (air)	No	40		77.7	1425	0

Results

	Calculated (dBA)		Noise Limits (dBA)			
			Day		Evening	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq
Compressor (air)	48.7	44.7	N/A	N/A	N/A	N/A
Compressor (air)	48.6	44.6	N/A	N/A	N/A	N/A
Total	48.7	47.7	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #4 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Resi's to the eas	Residential	60	55	50

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compressor (air)	No	40		77.7	1600	0
Compressor (air)	No	40		77.7	1600	0

Results

	Calculated (dBA)		Noise Limits (dBA)			
			Day		Evening	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq
Compressor (air)	47.6	43.6	N/A	N/A	N/A	N/A
Compressor (air)	47.6	43.6	N/A	N/A	N/A	N/A
Total	47.6	46.6	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

APPENDIX H-3

Traffic Noise Modeling

Input and Output

Dudek					**31 March 2020**						
M Greene					**TNM 2.5**						
INPUT: ROADWAYS							**Average pavement type shall be used unless**				
PROJECT/CONTRACT:	**10773**						**a State highway agency substantiates the use**				
RUN:	**RDA Curci Vineyard III 2019 - Existing**						**of a different type with the approval of FHWA**				
Roadway		**Points**									
Name	**Width**	**Name**	**No.**	**Coordinates (pavement)**			**Flow Control**			**Segment**	
				X	**Y**	**Z**	**Control Device**	**Speed Constraint**	**Percent Vehicles Affected**	**Pvmt Type**	**On Struct?**
	ft			ft	ft	ft		mph	%		
Clinton Keith Rd - east of Creighton Ave	100.0	point1	1	4,540.0	2,082.1	1,500.00				Average	
		point3	3	1,894.7	2,071.7	1,518.00				Average	
		point4	4	1,877.4	2,071.7	1,520.00					
I-215	120.0	point29	29	734.8	1,945.7	1,515.00				Average	
		point9	9	963.2	2,315.1	1,515.00					
I-215 NB Onramp	45.0	point31	31	1,561.4	2,190.7	1,530.00				Average	
		point21	21	1,456.5	2,282.5	1,530.00				Average	
		point22	22	1,412.7	2,356.9	1,530.00				Average	
		point23	23	1,421.5	2,492.5	1,530.00				Average	
		point24	24	1,780.2	3,485.3	1,530.00				Average	
		point25	25	1,850.1	3,730.3	1,530.00					
Whitewood Road	100.0	point33	33	4,478.8	2,121.8	1,500.00				Average	
		point27	27	4,496.4	4,024.5	1,500.00					
I-215 NB Offramp	45.0	point36	36	717.3	1,648.3	1,520.00				Average	
		point17	17	1,167.8	1,871.4	1,525.00				Average	
		point18	18	1,281.5	1,989.5	1,528.00				Average	
		point19	19	1,355.9	2,173.2	1,530.00					
I-215-2	120.0	point39	39	980.0	2,337.3	1,515.00				Average	
		point10	10	1,294.7	2,754.9	1,520.00				Average	
		point11	11	1,552.7	3,192.3	1,525.00				Average	
		point12	12	1,727.6	3,603.4	1,530.00				Average	
		point13	13	1,823.9	3,918.3	1,530.00				Average	
		point14	14	1,876.4	4,123.9	1,530.00				Average	
		point15	15	1,950.7	4,425.7	1,530.00					
Clinton Keith Road-west of Creighton Av	100.0	point41	41	1,877.4	2,071.7	1,520.00				Average	

		point5	5	1,705.5	2,092.5	1,530.00				Average	
		point6	6	1,367.1	2,194.9	1,530.00				Average	
		point7	7	540.4	2,474.8	1,530.00					

Dudek 31 March 202
M Greene TNM 2.5

INPUT: TRAFFIC FOR LAeq1h Percentages
PROJECT/CONTRACT: 10773
RUN: RDA Curci Vineyard III 2019 - Existing

Roadway	Points												
Name	Name	No.	Segment										
			Total	Autos		MTrucks		HTrucks		Buses		Motorcycles	
			Volume	P	S	P	S	P	S	P	S	P	S
			veh/hr	%	mph	%	mph	%	mph	%	mph	%	mph
Clinton Keith Rd - east of Creighton Ave	point1	1	2526	97	40	2	40	1	40	0	0	0	0
	point3	3	2526	97	40	2	40	1	40	0	0	0	0
	point4	4											
I-215	point29	29	11700	93	65	3	65	4	65	0	0	0	0
	point9	9											
I-215 NB Onramp	point31	31	100	97	45	2	45	1	45	0	0	0	0
	point21	21	100	97	45	2	45	1	45	0	0	0	0
	point22	22	100	97	45	2	45	1	45	0	0	0	0
	point23	23	100	97	45	2	45	1	45	0	0	0	0
	point24	24	100	97	45	2	45	1	45	0	0	0	0
	point25	25											
Whitewood Road	point33	33	1250	97	45	2	45	1	45	0	0	0	0
	point27	27											
I-215 NB Offramp	point36	36	100	97	45	2	45	1	45	0	0	0	0
	point17	17	100	97	45	2	45	1	45	0	0	0	0
	point18	18	100	97	45	2	45	1	45	0	0	0	0
	point19	19											
I-215-2	point39	39	11700	93	65	3	65	4	65	0	0	0	0
	point10	10	11700	93	65	3	65	4	65	0	0	0	0
	point11	11	11700	93	65	3	65	4	65	0	0	0	0
	point12	12	11700	93	65	3	65	4	65	0	0	0	0
	point13	13	11700	93	65	3	65	4	65	0	0	0	0
	point14	14	11700	93	65	3	65	4	65	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Percentages **10773**

	point15	15											
Clinton Keith Road-west of Creighton Av	point41	41	2526	97	40	2	40	1	40	0	0	0	0
	point5	5	2526	97	40	2	40	1	40	0	0	0	0
	point6	6	2526	97	40	2	40	1	40	0	0	0	0
	point7	7											

Dudek						**31 March 2020**					
M Greene						**TNM 2.5**					
INPUT: RECEIVERS											
PROJECT/CONTRACT:	**10773**										
RUN:	**RDA Curci Vineyard III 2019 - Existing**										
Receiver											
Name	**No.**	**#DUs**	**Coordinates (ground)**			**Height**	**Input Sound Levels and Criteria**				**Active**
			X	**Y**	**Z**	**above**	**Existing**	**Impact Criteria**		**NR**	**in**
						Ground	**LAeq1h**	**LAeq1h**	**Sub'l**	**Goal**	**Calc.**
			ft	ft	ft	ft	dBA	dBA	dB	dB	
ST1	1	1	1,702.5	1,982.2	1,512.00	5.00	0.00	66	10.0	8.0	
ST2	2	1	3,422.5	1,837.3	1,510.00	5.00	0.00	66	10.0	8.0	
ST3	3	1	3,310.7	2,162.6	1,510.00	5.00	0.00	66	10.0	8.0	Y
ST4	4	1	3,272.5	2,640.2	1,510.00	5.00	0.00	66	10.0	8.0	
ST5	5	1	3,315.6	3,261.9	1,517.00	5.00	0.00	66	10.0	8.0	Y
M1	7	1	4,402.0	2,379.6	1,510.00	5.00	0.00	66	10.0	8.0	

Dudek 31 March 2020
M Greene TNM 2.5

INPUT: BARRIERS
PROJECT/CONTRACT: 10773
RUN: RDA Curci Vineyard III 2019 - Existing

Barrier									Points										
Name	Type	Height		If Wall	If Berm			Add'tnl	Name	No.	Coordinates (bottom)			Height	Segment				
		Min	Max	$ per Unit Area	$ per Unit Vol.	Top Width	Run:Rise	$ per Unit Length			X	Y	Z	at Point	Seg Ht Incre-ment	Perturbs #Up	#Dn	On Struct?	Important Reflec-tions?
		ft	ft	$/sq ft	$/cu yd	ft	ft:ft	$/ft			ft	ft	ft	ft	ft				
Barrier1	W	0.00	99.99	0.00				0.00	point1	1	3,293.2	2,144.9	1,510.00	6.00	0.00	0	0		
									point2	2	3,801.1	2,135.3	1,510.00	6.00	0.00	0	0		
									point3	3	3,891.6	2,142.2	1,510.00	6.00	0.00	0	0		
									point4	4	4,384.6	2,142.2	1,510.00	6.00	0.00	0	0		
									point5	5	4,413.2	2,143.7	1,510.00	6.00	0.00	0	0		
									point6	6	4,422.0	3,547.7	1,510.00	6.00					
Barrier11	W	0.00	99.99	0.00				0.00	point10	10	3,293.3	2,145.3	1,510.00	10.00	0.00	0	0		
									point8	8	3,289.2	2,570.5	1,510.00	10.00					
Barrier21	W	0.00	99.99	0.00				0.00	point11	11	3,201.5	1,661.5	1,510.00	20.00	0.00	0	0		
									point37	37	3,204.3	1,713.9	1,510.00	20.00	0.00	0	0		
									point38	38	3,413.7	1,713.9	1,510.00	20.00	0.00	0	0		
									point39	39	3,411.0	1,653.3	1,510.00	20.00					
Barrier8	W	0.00	99.99	0.00				0.00	point48	48	3,325.9	2,270.4	1,510.00	20.00	0.00	0	0		
									point13	13	3,323.7	2,163.3	1,510.00	20.00	0.00	0	0		
									point14	14	3,787.3	2,158.9	1,510.00	20.00	0.00	0	0		
									point15	15	3,787.3	2,272.6	1,510.00	20.00					
Barrier9	W	0.00	99.99	0.00				0.00	point50	50	3,894.5	2,263.9	1,510.00	20.00	0.00	0	0		
									point17	17	3,901.0	2,165.4	1,510.00	20.00	0.00	0	0		
									point18	18	4,275.0	2,158.9	1,510.00	20.00	0.00	0	0		
									point46	46	4,272.8	2,266.0	1,510.00	20.00					
Barrier10	W	0.00	99.99	0.00				0.00	point52	52	4,323.8	2,378.3	1,510.00	20.00	0.00	0	0		
									point20	20	4,321.0	2,157.9	1,510.00	20.00	0.00	0	0		
									point21	21	4,395.4	2,160.7	1,510.00	20.00	0.00	0	0		
									point22	22	4,398.2	2,381.1	1,510.00	20.00					
Barrier 5	W	0.00	99.99	0.00				0.00	point54	54	4,086.8	2,609.8	1,510.00	20.00	0.00	0	0		
									point24	24	4,097.8	2,923.9	1,510.00	20.00	0.00	0	0		
									point25	25	4,340.3	2,918.4	1,510.00	20.00	0.00	0	0		
									point45	45	4,343.1	3,406.1	1,510.00	20.00	0.00	0	0		
									point26	26	3,403.5	3,411.6	1,510.00	20.00	0.00	0	0		
									point27	27	3,422.8	2,609.8	1,510.00	20.00					
Barrier7	W	0.00	99.99	0.00				0.00	point56	56	3,305.6	2,340.4	1,510.00	20.00	0.00	0	0		
									point29	29	4,282.4	2,337.0	1,510.00	20.00	0.00	0	0		
									point30	30	4,276.9	2,546.4	1,510.00	20.00	0.00	0	0		
									point31	31	3,309.8	2,557.5	1,510.00	20.00	0.00	0	0		
									point33	33	3,308.6	2,342.3	1,510.00	20.00					

Barrier6	W	0.00	99.99	0.00				0.00	point58	58	3,318.3	3,099.4	1,510.00	20.00	0.00	0	0		
									point35	35	3,310.0	2,589.7	1,510.00	20.00	0.00	0	0		
									point36	36	3,376.2	2,586.9	1,510.00	20.00	0.00	0	0		
									point12	12	3,381.7	3,093.9	1,510.00	20.00					
Barrier20	W	0.00	99.99	0.00				0.00	point60	60	3,433.3	1,768.9	1,510.00	20.00	0.00	0	0		
									point41	41	3,434.4	1,876.1	1,510.00	20.00	0.00	0	0		
									point42	42	3,552.5	1,875.0	1,510.00	20.00	0.00	0	0		
									point43	43	3,552.5	1,771.1	1,510.00	20.00					
Barrier19	W	0.00	99.99	0.00				0.00	point61	61	1,708.0	2,180.4	1,530.00	0.00	0.00	0	0		
									point62	62	1,819.1	2,524.1	1,540.00	0.00	0.00	0	0		
									point63	63	1,871.2	2,975.4	1,550.00	0.00	0.00	0	0		
									point64	64	1,968.4	3,697.5	1,550.00	0.00	0.00	0	0		
									point65	65	1,975.3	4,003.0	1,540.00	0.00					
Barrier22	W	0.00	99.99	0.00				0.00	point67	67	1,779.6	1,933.4	1,530.00	20.00	0.00	0	0		
									point68	68	1,659.0	1,949.5	1,530.00	20.00	0.00	0	0		
									point69	69	1,506.3	2,035.2	1,530.00	20.00	0.00	0	0		
									point70	70	1,238.3	1,737.8	1,530.00	20.00	0.00	0	0		
									point71	71	1,160.6	1,692.2	1,530.00	20.00					
Wall - 6'	W	0.00	99.99	0.00				0.00	point72	72	3,289.2	2,570.5	1,510.00	6.00	0.00	0	0		
									point74	74	3,291.3	2,898.6	1,512.33	6.00	0.00	0	0		
									point75	75	3,293.3	3,226.7	1,517.00	6.00	0.00	0	0		
									point73	73	3,295.4	3,554.8	1,520.00	6.00					

Dudek
M Greene

31 March 2020
TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS
PROJECT/CONTRACT: 10773
RUN: RDA Curci Vineyard III 2019 - Existing
BARRIER DESIGN: INPUT HEIGHTS
ATMOSPHERICS: 68 deg F, 50% RH

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Crit'n Sub'l Inc	Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Goal	Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
ST1	1	1	0.0	61.0	66	61.0	10	----	61.0	0.0	8	-8.0
ST2	2	1	0.0	59.9	66	59.9	10	----	59.9	0.0	8	-8.0
ST3	3	1	0.0	59.4	66	59.4	10	----	59.4	0.0	8	-8.0
ST4	4	1	0.0	52.9	66	52.9	10	----	52.9	0.0	8	-8.0
ST5	5	1	0.0	46.2	66	46.2	10	----	46.2	0.0	8	-8.0
M1	7	1	0.0	56.6	66	56.6	10	----	56.6	0.0	8	-8.0

Dwelling Units	# DUs	Noise Reduction Min	Avg	Max
		dB	dB	dB
All Selected	6	0.0	0.0	0.0
All Impacted	0	0.0	0.0	0.0
All that meet NR Goal	0	0.0	0.0	0.0

Dudek					**31 March 2020**						
M Greene					**TNM 2.5**						
INPUT: ROADWAYS							**Average pavement type shall be used unless**				
PROJECT/CONTRACT:	**10773**						**a State highway agency substantiates the use**				
RUN:	**RDA Curci Vineyard III 2020 - Exist p Prj**						**of a different type with the approval of FHWA**				
Roadway		**Points**									
Name	**Width**	**Name**	**No.**	**Coordinates (pavement)**			**Flow Control**			**Segment**	
				X	**Y**	**Z**	**Control Device**	**Speed Constraint**	**Percent Vehicles Affected**	**Pvmt Type**	**On Struct?**
	ft			ft	ft	ft		mph	%		
Clinton Keith Rd - east of Creighton Ave	100.0	point1	1	4,540.0	2,082.1	1,500.00				Average	
		point3	3	1,894.7	2,071.7	1,518.00				Average	
		point4	4	1,877.4	2,071.7	1,520.00					
I-215	120.0	point29	29	734.8	1,945.7	1,515.00				Average	
		point9	9	963.2	2,315.1	1,515.00					
I-215 NB Onramp	45.0	point31	31	1,561.4	2,190.7	1,530.00				Average	
		point21	21	1,456.5	2,282.5	1,530.00				Average	
		point22	22	1,412.7	2,356.9	1,530.00				Average	
		point23	23	1,421.5	2,492.5	1,530.00				Average	
		point24	24	1,780.2	3,485.3	1,530.00				Average	
		point25	25	1,850.1	3,730.3	1,530.00					
Whitewood Road	100.0	point33	33	4,478.8	2,121.8	1,500.00				Average	
		point27	27	4,496.4	4,024.5	1,500.00					
I-215 NB Offramp	45.0	point36	36	717.3	1,648.3	1,520.00				Average	
		point17	17	1,167.8	1,871.4	1,525.00				Average	
		point18	18	1,281.5	1,989.5	1,528.00				Average	
		point19	19	1,355.9	2,173.2	1,530.00					
I-215-2	120.0	point39	39	980.0	2,337.3	1,515.00				Average	
		point10	10	1,294.7	2,754.9	1,520.00				Average	
		point11	11	1,552.7	3,192.3	1,525.00				Average	
		point12	12	1,727.6	3,603.4	1,530.00				Average	
		point13	13	1,823.9	3,918.3	1,530.00				Average	
		point14	14	1,876.4	4,123.9	1,530.00				Average	
		point15	15	1,950.7	4,425.7	1,530.00					
Clinton Keith Road-west of Creighton Av	100.0	point41	41	1,877.4	2,071.7	1,520.00				Average	

		point5	5	1,705.5	2,092.5	1,530.00				Average	
		point6	6	1,367.1	2,194.9	1,530.00				Average	
		point7	7	540.4	2,474.8	1,530.00					

Dudek 31 March 202
M Greene TNM 2.5

INPUT: TRAFFIC FOR LAeq1h Percentages
PROJECT/CONTRACT: 10773
RUN: RDA Curci Vineyard III 2020 - Exist p Prj

Roadway	Points												
Name	Name	No.	Segment										
			Total	Autos		MTrucks		HTrucks		Buses		Motorcycles	
			Volume	P	S	P	S	P	S	P	S	P	S
			veh/hr	%	mph	%	mph	%	mph	%	mph	%	mph
Clinton Keith Rd - east of Creighton Ave	point1	1	2659	97	40	2	40	1	40	0	0	0	0
	point3	3	2659	97	40	2	40	1	40	0	0	0	0
	point4	4											
I-215	point29	29	11700	93	65	3	65	4	65	0	0	0	0
	point9	9											
I-215 NB Onramp	point31	31	100	97	45	2	45	1	45	0	0	0	0
	point21	21	100	97	45	2	45	1	45	0	0	0	0
	point22	22	100	97	45	2	45	1	45	0	0	0	0
	point23	23	100	97	45	2	45	1	45	0	0	0	0
	point24	24	100	97	45	2	45	1	45	0	0	0	0
	point25	25											
Whitewood Road	point33	33	1250	97	45	2	45	1	45	0	0	0	0
	point27	27											
I-215 NB Offramp	point36	36	100	97	45	2	45	1	45	0	0	0	0
	point17	17	100	97	45	2	45	1	45	0	0	0	0
	point18	18	100	97	45	2	45	1	45	0	0	0	0
	point19	19											
I-215-2	point39	39	11700	93	65	3	65	4	65	0	0	0	0
	point10	10	11700	93	65	3	65	4	65	0	0	0	0
	point11	11	11700	93	65	3	65	4	65	0	0	0	0
	point12	12	11700	93	65	3	65	4	65	0	0	0	0
	point13	13	11700	93	65	3	65	4	65	0	0	0	0
	point14	14	11700	93	65	3	65	4	65	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Percentages **10773**

	point15	15											
Clinton Keith Road-west of Creighton Av	point41	41	2792	97	40	2	40	1	40	0	0	0	0
	point5	5	2792	97	40	2	40	1	40	0	0	0	0
	point6	6	2792	97	40	2	40	1	40	0	0	0	0
	point7	7											

Dudek						**31 March 2020**					
M Greene						**TNM 2.5**					
INPUT: RECEIVERS											
PROJECT/CONTRACT:	**10773**										
RUN:	**RDA Curci Vineyard III 2020 - Exist p Prj**										
Receiver											
Name	**No.**	**#DUs**	**Coordinates (ground)**			**Height**	**Input Sound Levels and Criteria**				**Active**
			X	**Y**	**Z**	**above**	**Existing**	**Impact Criteria**		**NR**	**in**
						Ground	**LAeq1h**	**LAeq1h**	**Sub'l**	**Goal**	**Calc.**
			ft	ft	ft	ft	dBA	dBA	dB	dB	
ST1	1	1	1,702.5	1,982.2	1,512.00	5.00	0.00	66	10.0	8.0	
ST2	2	1	3,422.5	1,837.3	1,510.00	5.00	0.00	66	10.0	8.0	
ST3	3	1	3,310.7	2,162.6	1,510.00	5.00	0.00	66	10.0	8.0	Y
ST4	4	1	3,272.5	2,640.2	1,510.00	5.00	0.00	66	10.0	8.0	
ST5	5	1	3,315.6	3,261.9	1,517.00	5.00	0.00	66	10.0	8.0	Y
M1	7	1	4,402.0	2,379.6	1,510.00	5.00	0.00	66	10.0	8.0	

Dudek
M Greene

31 March 2020
TNM 2.5

INPUT: BARRIERS
PROJECT/CONTRACT: 10773
RUN: RDA Curci Vineyard III 2020 - Exist p Prj

Barrier									Points										
Name	Type	Height		If Wall	If Berm			Add'tnl	Name	No.	Coordinates (bottom)			Height	Segment				
		Min	Max	$ per Unit Area	$ per Unit Vol.	Top Width	Run:Rise	$ per Unit Length			X	Y	Z	at Point	Seg Ht Incre-ment	Perturbs #Up	#Dn	On Struct?	Important Reflec-tions?
		ft	ft	$/sq ft	$/cu yd	ft	ft:ft	$/ft			ft	ft	ft	ft	ft				
Barrier1	W	0.00	99.99	0.00				0.00	point1	1	3,293.2	2,144.9	1,510.00	6.00	0.00	0	0		
									point2	2	3,801.1	2,135.3	1,510.00	6.00	0.00	0	0		
									point3	3	3,891.6	2,142.2	1,510.00	6.00	0.00	0	0		
									point4	4	4,384.6	2,142.2	1,510.00	6.00	0.00	0	0		
									point5	5	4,413.2	2,143.7	1,510.00	6.00	0.00	0	0		
									point6	6	4,422.0	3,547.7	1,510.00	6.00					
Barrier11	W	0.00	99.99	0.00				0.00	point10	10	3,293.3	2,145.3	1,510.00	10.00	0.00	0	0		
									point8	8	3,289.2	2,570.5	1,510.00	10.00					
Barrier21	W	0.00	99.99	0.00				0.00	point11	11	3,201.5	1,661.5	1,510.00	20.00	0.00	0	0		
									point37	37	3,204.3	1,713.9	1,510.00	20.00	0.00	0	0		
									point38	38	3,413.7	1,713.9	1,510.00	20.00	0.00	0	0		
									point39	39	3,411.0	1,653.3	1,510.00	20.00					
Barrier8	W	0.00	99.99	0.00				0.00	point48	48	3,325.9	2,270.4	1,510.00	20.00	0.00	0	0		
									point13	13	3,323.7	2,163.3	1,510.00	20.00	0.00	0	0		
									point14	14	3,787.3	2,158.9	1,510.00	20.00	0.00	0	0		
									point15	15	3,787.3	2,272.6	1,510.00	20.00					
Barrier9	W	0.00	99.99	0.00				0.00	point50	50	3,894.5	2,263.9	1,510.00	20.00	0.00	0	0		
									point17	17	3,901.0	2,165.4	1,510.00	20.00	0.00	0	0		
									point18	18	4,275.0	2,158.9	1,510.00	20.00	0.00	0	0		
									point46	46	4,272.8	2,266.0	1,510.00	20.00					
Barrier10	W	0.00	99.99	0.00				0.00	point52	52	4,323.8	2,378.3	1,510.00	20.00	0.00	0	0		
									point20	20	4,321.0	2,157.9	1,510.00	20.00	0.00	0	0		
									point21	21	4,395.4	2,160.7	1,510.00	20.00	0.00	0	0		
									point22	22	4,398.2	2,381.1	1,510.00	20.00					
Barrier 5	W	0.00	99.99	0.00				0.00	point54	54	4,086.8	2,609.8	1,510.00	20.00	0.00	0	0		
									point24	24	4,097.8	2,923.9	1,510.00	20.00	0.00	0	0		
									point25	25	4,340.3	2,918.4	1,510.00	20.00	0.00	0	0		
									point45	45	4,343.1	3,406.1	1,510.00	20.00	0.00	0	0		
									point26	26	3,403.5	3,411.6	1,510.00	20.00	0.00	0	0		
									point27	27	3,422.8	2,609.8	1,510.00	20.00					
Barrier7	W	0.00	99.99	0.00				0.00	point56	56	3,305.6	2,340.4	1,510.00	20.00	0.00	0	0		
									point29	29	4,282.4	2,337.0	1,510.00	20.00	0.00	0	0		
									point30	30	4,276.9	2,546.4	1,510.00	20.00	0.00	0	0		
									point31	31	3,309.8	2,557.5	1,510.00	20.00	0.00	0	0		
									point33	33	3,308.6	2,342.3	1,510.00	20.00					

Barrier6	W	0.00	99.99	0.00				0.00	point58	58	3,318.3	3,099.4	1,510.00	20.00	0.00	0	0		
									point35	35	3,310.0	2,589.7	1,510.00	20.00	0.00	0	0		
									point36	36	3,376.2	2,586.9	1,510.00	20.00	0.00	0	0		
									point12	12	3,381.7	3,093.9	1,510.00	20.00					
Barrier20	W	0.00	99.99	0.00				0.00	point60	60	3,433.3	1,768.9	1,510.00	20.00	0.00	0	0		
									point41	41	3,434.4	1,876.1	1,510.00	20.00	0.00	0	0		
									point42	42	3,552.5	1,875.0	1,510.00	20.00	0.00	0	0		
									point43	43	3,552.5	1,771.1	1,510.00	20.00					
Barrier19	W	0.00	99.99	0.00				0.00	point61	61	1,708.0	2,180.4	1,530.00	0.00	0.00	0	0		
									point62	62	1,819.1	2,524.1	1,540.00	0.00	0.00	0	0		
									point63	63	1,871.2	2,975.4	1,550.00	0.00	0.00	0	0		
									point64	64	1,968.4	3,697.5	1,550.00	0.00	0.00	0	0		
									point65	65	1,975.3	4,003.0	1,540.00	0.00					
Barrier22	W	0.00	99.99	0.00				0.00	point67	67	1,779.6	1,933.4	1,530.00	20.00	0.00	0	0		
									point68	68	1,659.0	1,949.5	1,530.00	20.00	0.00	0	0		
									point69	69	1,506.3	2,035.2	1,530.00	20.00	0.00	0	0		
									point70	70	1,238.3	1,737.8	1,530.00	20.00	0.00	0	0		
									point71	71	1,160.6	1,692.2	1,530.00	20.00					
Wall - 6'	W	0.00	99.99	0.00				0.00	point72	72	3,289.2	2,570.5	1,510.00	6.00	0.00	0	0		
									point74	74	3,291.3	2,898.6	1,512.33	6.00	0.00	0	0		
									point75	75	3,293.3	3,226.7	1,517.00	6.00	0.00	0	0		
									point73	73	3,295.4	3,554.8	1,520.00	6.00					

Dudek
M Greene

31 March 2020
TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS
PROJECT/CONTRACT: 10773
RUN: RDA Curci Vineyard III 2020 - Exist p Prj
BARRIER DESIGN: INPUT HEIGHTS
ATMOSPHERICS: 68 deg F, 50% RH

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Crit'n Sub'l Inc	Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Goal	Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
ST1	1	1	0.0	61.3	66	61.3	10	----	61.3	0.0	8	-8.0
ST2	2	1	0.0	60.1	66	60.1	10	----	60.1	0.0	8	-8.0
ST3	3	1	0.0	59.6	66	59.6	10	----	59.6	0.0	8	-8.0
ST4	4	1	0.0	53.1	66	53.1	10	----	53.1	0.0	8	-8.0
ST5	5	1	0.0	46.3	66	46.3	10	----	46.3	0.0	8	-8.0
M1	7	1	0.0	56.6	66	56.6	10	----	56.6	0.0	8	-8.0

Dwelling Units	# DUs	Noise Reduction Min	Avg	Max
		dB	dB	dB
All Selected	6	0.0	0.0	0.0
All Impacted	0	0.0	0.0	0.0
All that meet NR Goal	0	0.0	0.0	0.0

Dudek					**31 March 2020**						
M Greene					**TNM 2.5**						
INPUT: ROADWAYS							**Average pavement type shall be used unless**				
PROJECT/CONTRACT:	**10773**						**a State highway agency substantiates the use**				
RUN:	**RDA Vnyd II 2020 - Exist p Amb p Cumltv**						**of a different type with the approval of FHWA**				
Roadway		**Points**									
Name	**Width**	**Name**	**No.**	**Coordinates (pavement)**			**Flow Control**			**Segment**	
				X	**Y**	**Z**	**Control Device**	**Speed Constraint**	**Percent Vehicles Affected**	**Pvmt Type**	**On Struct?**
	ft			ft	ft	ft		mph	%		
Clinton Keith Rd - east of Creighton Ave	100.0	point1	1	4,540.0	2,082.1	1,500.00				Average	
		point3	3	1,894.7	2,071.7	1,518.00				Average	
		point4	4	1,877.4	2,071.7	1,520.00					
I-215	120.0	point29	29	734.8	1,945.7	1,515.00				Average	
		point9	9	963.2	2,315.1	1,515.00					
I-215 NB Onramp	45.0	point31	31	1,561.4	2,190.7	1,530.00				Average	
		point21	21	1,456.5	2,282.5	1,530.00				Average	
		point22	22	1,412.7	2,356.9	1,530.00				Average	
		point23	23	1,421.5	2,492.5	1,530.00				Average	
		point24	24	1,780.2	3,485.3	1,530.00				Average	
		point25	25	1,850.1	3,730.3	1,530.00					
Whitewood Road	100.0	point33	33	4,478.8	2,121.8	1,500.00				Average	
		point27	27	4,496.4	4,024.5	1,500.00					
I-215 NB Offramp	45.0	point36	36	717.3	1,648.3	1,520.00				Average	
		point17	17	1,167.8	1,871.4	1,525.00				Average	
		point18	18	1,281.5	1,989.5	1,528.00				Average	
		point19	19	1,355.9	2,173.2	1,530.00					
I-215-2	120.0	point39	39	980.0	2,337.3	1,515.00				Average	
		point10	10	1,294.7	2,754.9	1,520.00				Average	
		point11	11	1,552.7	3,192.3	1,525.00				Average	
		point12	12	1,727.6	3,603.4	1,530.00				Average	
		point13	13	1,823.9	3,918.3	1,530.00				Average	
		point14	14	1,876.4	4,123.9	1,530.00				Average	
		point15	15	1,950.7	4,425.7	1,530.00					
Clinton Keith Road-west of Creighton Av	100.0	point41	41	1,877.4	2,071.7	1,520.00				Average	

		point5	5	1,705.5	2,092.5	1,530.00				Average	
		point6	6	1,367.1	2,194.9	1,530.00				Average	
		point7	7	540.4	2,474.8	1,530.00					

Dudek 31 March 202
M Greene TNM 2.5

INPUT: TRAFFIC FOR LAeq1h Percentages
PROJECT/CONTRACT: 10773
RUN: RDA Vnyd II 2020 - Exist p Amb p Cumltv

Roadway	Points												
Name	Name	No.	Segment										
			Total	Autos		MTrucks		HTrucks		Buses		Motorcycles	
			Volume	P	S	P	S	P	S	P	S	P	S
			veh/hr	%	mph	%	mph	%	mph	%	mph	%	mph
Clinton Keith Rd - east of Creighton Ave	point1	1	4112	97	40	2	40	1	40	0	0	0	0
	point3	3	4112	97	40	2	40	1	40	0	0	0	0
	point4	4											
I-215	point29	29	11700	93	65	3	65	4	65	0	0	0	0
	point9	9											
I-215 NB Onramp	point31	31	100	97	45	2	45	1	45	0	0	0	0
	point21	21	100	97	45	2	45	1	45	0	0	0	0
	point22	22	100	97	45	2	45	1	45	0	0	0	0
	point23	23	100	97	45	2	45	1	45	0	0	0	0
	point24	24	100	97	45	2	45	1	45	0	0	0	0
	point25	25											
Whitewood Road	point33	33	1696	97	45	2	45	1	45	0	0	0	0
	point27	27											
I-215 NB Offramp	point36	36	100	97	45	2	45	1	45	0	0	0	0
	point17	17	100	97	45	2	45	1	45	0	0	0	0
	point18	18	100	97	45	2	45	1	45	0	0	0	0
	point19	19											
I-215-2	point39	39	11700	93	65	3	65	4	65	0	0	0	0
	point10	10	11700	93	65	3	65	4	65	0	0	0	0
	point11	11	11700	93	65	3	65	4	65	0	0	0	0
	point12	12	11700	93	65	3	65	4	65	0	0	0	0
	point13	13	11700	93	65	3	65	4	65	0	0	0	0
	point14	14	11700	93	65	3	65	4	65	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Percentages **10773**

	point15	15											
Clinton Keith Road-west of Creighton Av	point41	41	4112	97	40	2	40	1	40	0	0	0	0
	point5	5	4112	97	40	2	40	1	40	0	0	0	0
	point6	6	4112	97	40	2	40	1	40	0	0	0	0
	point7	7											

Dudek						**31 March 2020**					
M Greene						**TNM 2.5**					
INPUT: RECEIVERS											
PROJECT/CONTRACT:	**10773**										
RUN:	**RDA Vnyd II 2020 - Exist p Amb p Cumltv**										
Receiver											
Name	**No.**	**#DUs**	**Coordinates (ground)**			**Height**	**Input Sound Levels and Criteria**				**Active**
			X	**Y**	**Z**	**above**	**Existing**	**Impact Criteria**		**NR**	**in**
						Ground	**LAeq1h**	**LAeq1h**	**Sub'l**	**Goal**	**Calc.**
			ft	ft	ft	ft	dBA	dBA	dB	dB	
ST1	1	1	1,702.5	1,982.2	1,512.00	5.00	0.00	66	10.0	8.0	
ST2	2	1	3,422.5	1,837.3	1,510.00	5.00	0.00	66	10.0	8.0	
ST3	3	1	3,310.7	2,162.6	1,510.00	5.00	0.00	66	10.0	8.0	Y
ST4	4	1	3,272.5	2,640.2	1,510.00	5.00	0.00	66	10.0	8.0	
ST5	5	1	3,315.6	3,261.9	1,517.00	5.00	0.00	66	10.0	8.0	Y
M1	7	1	4,402.0	2,379.6	1,510.00	5.00	0.00	66	10.0	8.0	

Dudek 31 March 2020
M Greene TNM 2.5

INPUT: BARRIERS
PROJECT/CONTRACT: 10773
RUN: RDA Vnyd II 2020 - Exist p Amb p Cumltv

Barrier									Points										
Name	Type	Height		If Wall	If Berm			Add'tnl	Name	No.	Coordinates (bottom)			Height	Segment				
		Min	Max	$ per Unit Area	$ per Unit Vol.	Top Width	Run:Rise	$ per Unit Length			X	Y	Z	at Point	Seg Ht Incre-ment	Perturbs #Up	#Dn	On Struct?	Important Reflec-tions?
		ft	ft	$/sq ft	$/cu yd	ft	ft:ft	$/ft			ft	ft	ft	ft	ft				
Barrier1	W	0.00	99.99	0.00				0.00	point1	1	3,293.2	2,144.9	1,510.00	6.00	0.00	0	0		
									point2	2	3,801.1	2,135.3	1,510.00	6.00	0.00	0	0		
									point3	3	3,891.6	2,142.2	1,510.00	6.00	0.00	0	0		
									point4	4	4,384.6	2,142.2	1,510.00	6.00	0.00	0	0		
									point5	5	4,413.2	2,143.7	1,510.00	6.00	0.00	0	0		
									point6	6	4,422.0	3,547.7	1,510.00	6.00					
Barrier11	W	0.00	99.99	0.00				0.00	point10	10	3,293.3	2,145.3	1,510.00	10.00	0.00	0	0		
									point8	8	3,289.2	2,570.5	1,510.00	10.00					
Barrier21	W	0.00	99.99	0.00				0.00	point11	11	3,201.5	1,661.5	1,510.00	20.00	0.00	0	0		
									point37	37	3,204.3	1,713.9	1,510.00	20.00	0.00	0	0		
									point38	38	3,413.7	1,713.9	1,510.00	20.00	0.00	0	0		
									point39	39	3,411.0	1,653.3	1,510.00	20.00					
Barrier8	W	0.00	99.99	0.00				0.00	point48	48	3,325.9	2,270.4	1,510.00	20.00	0.00	0	0		
									point13	13	3,323.7	2,163.3	1,510.00	20.00	0.00	0	0		
									point14	14	3,787.3	2,158.9	1,510.00	20.00	0.00	0	0		
									point15	15	3,787.3	2,272.6	1,510.00	20.00					
Barrier9	W	0.00	99.99	0.00				0.00	point50	50	3,894.5	2,263.9	1,510.00	20.00	0.00	0	0		
									point17	17	3,901.0	2,165.4	1,510.00	20.00	0.00	0	0		
									point18	18	4,275.0	2,158.9	1,510.00	20.00	0.00	0	0		
									point46	46	4,272.8	2,266.0	1,510.00	20.00					
Barrier10	W	0.00	99.99	0.00				0.00	point52	52	4,323.8	2,378.3	1,510.00	20.00	0.00	0	0		
									point20	20	4,321.0	2,157.9	1,510.00	20.00	0.00	0	0		
									point21	21	4,395.4	2,160.7	1,510.00	20.00	0.00	0	0		
									point22	22	4,398.2	2,381.1	1,510.00	20.00					
Barrier 5	W	0.00	99.99	0.00				0.00	point54	54	4,086.8	2,609.8	1,510.00	20.00	0.00	0	0		
									point24	24	4,097.8	2,923.9	1,510.00	20.00	0.00	0	0		
									point25	25	4,340.3	2,918.4	1,510.00	20.00	0.00	0	0		
									point45	45	4,343.1	3,406.1	1,510.00	20.00	0.00	0	0		
									point26	26	3,403.5	3,411.6	1,510.00	20.00	0.00	0	0		
									point27	27	3,422.8	2,609.8	1,510.00	20.00					
Barrier7	W	0.00	99.99	0.00				0.00	point56	56	3,305.6	2,340.4	1,510.00	20.00	0.00	0	0		
									point29	29	4,282.4	2,337.0	1,510.00	20.00	0.00	0	0		
									point30	30	4,276.9	2,546.4	1,510.00	20.00	0.00	0	0		
									point31	31	3,309.8	2,557.5	1,510.00	20.00	0.00	0	0		
									point33	33	3,308.6	2,342.3	1,510.00	20.00					

Barrier6	W	0.00	99.99	0.00				0.00	point58	58	3,318.3	3,099.4	1,510.00	20.00	0.00	0	0		
									point35	35	3,310.0	2,589.7	1,510.00	20.00	0.00	0	0		
									point36	36	3,376.2	2,586.9	1,510.00	20.00	0.00	0	0		
									point12	12	3,381.7	3,093.9	1,510.00	20.00					
Barrier20	W	0.00	99.99	0.00				0.00	point60	60	3,433.3	1,768.9	1,510.00	20.00	0.00	0	0		
									point41	41	3,434.4	1,876.1	1,510.00	20.00	0.00	0	0		
									point42	42	3,552.5	1,875.0	1,510.00	20.00	0.00	0	0		
									point43	43	3,552.5	1,771.1	1,510.00	20.00					
Barrier19	W	0.00	99.99	0.00				0.00	point61	61	1,708.0	2,180.4	1,530.00	0.00	0.00	0	0		
									point62	62	1,819.1	2,524.1	1,540.00	0.00	0.00	0	0		
									point63	63	1,871.2	2,975.4	1,550.00	0.00	0.00	0	0		
									point64	64	1,968.4	3,697.5	1,550.00	0.00	0.00	0	0		
									point65	65	1,975.3	4,003.0	1,540.00	0.00					
Barrier22	W	0.00	99.99	0.00				0.00	point67	67	1,779.6	1,933.4	1,530.00	20.00	0.00	0	0		
									point68	68	1,659.0	1,949.5	1,530.00	20.00	0.00	0	0		
									point69	69	1,506.3	2,035.2	1,530.00	20.00	0.00	0	0		
									point70	70	1,238.3	1,737.8	1,530.00	20.00	0.00	0	0		
									point71	71	1,160.6	1,692.2	1,530.00	20.00					
Wall - 6'	W	0.00	99.99	0.00				0.00	point72	72	3,289.2	2,570.5	1,510.00	6.00	0.00	0	0		
									point74	74	3,291.3	2,898.6	1,512.33	6.00	0.00	0	0		
									point75	75	3,293.3	3,226.7	1,517.00	6.00	0.00	0	0		
									point73	73	3,295.4	3,554.8	1,520.00	6.00					

Dudek
M Greene

31 March 2020
TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS
PROJECT/CONTRACT: 10773
RUN: RDA Vnyd II 2020 - Exist p Amb p Cumltv
BARRIER DESIGN: INPUT HEIGHTS
ATMOSPHERICS: 68 deg F, 50% RH

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Crit'n Sub'l Inc	Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Goal	Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
ST1	1	1	0.0	62.9	66	62.9	10	----	62.9	0.0	8	-8.0
ST2	2	1	0.0	61.9	66	61.9	10	----	61.9	0.0	8	-8.0
ST3	3	1	0.0	61.5	66	61.5	10	----	61.5	0.0	8	-8.0
ST4	4	1	0.0	54.5	66	54.5	10	----	54.5	0.0	8	-8.0
ST5	5	1	0.0	46.9	66	46.9	10	----	46.9	0.0	8	-8.0
M1	7	1	0.0	58.0	66	58.0	10	----	58.0	0.0	8	-8.0

Dwelling Units	# DUs	Noise Reduction Min	Avg	Max
		dB	dB	dB
All Selected	6	0.0	0.0	0.0
All Impacted	0	0.0	0.0	0.0
All that meet NR Goal	0	0.0	0.0	0.0

Dudek					**31 March 2020**						
M Greene					**TNM 2.5**						
INPUT: ROADWAYS							**Average pavement type shall be used unless**				
PROJECT/CONTRACT:	**10773**						**a State highway agency substantiates the use**				
RUN:	**RDA 2020 - Exi p Amb p Prj p Cmltv**						**of a different type with the approval of FHWA**				
Roadway		**Points**									
Name	**Width**	**Name**	**No.**	**Coordinates (pavement)**			**Flow Control**			**Segment**	
				X	**Y**	**Z**	**Control Device**	**Speed Constraint**	**Percent Vehicles Affected**	**Pvmt Type**	**On Struct?**
	ft			ft	ft	ft		mph	%		
Clinton Keith Rd - east of Creighton Ave	100.0	point1	1	4,540.0	2,082.1	1,500.00				Average	
		point3	3	1,894.7	2,071.7	1,518.00				Average	
		point4	4	1,877.4	2,071.7	1,520.00					
I-215	120.0	point29	29	734.8	1,945.7	1,515.00				Average	
		point9	9	963.2	2,315.1	1,515.00					
I-215 NB Onramp	45.0	point31	31	1,561.4	2,190.7	1,530.00				Average	
		point21	21	1,456.5	2,282.5	1,530.00				Average	
		point22	22	1,412.7	2,356.9	1,530.00				Average	
		point23	23	1,421.5	2,492.5	1,530.00				Average	
		point24	24	1,780.2	3,485.3	1,530.00				Average	
		point25	25	1,850.1	3,730.3	1,530.00					
Whitewood Road	100.0	point33	33	4,478.8	2,121.8	1,500.00				Average	
		point27	27	4,496.4	4,024.5	1,500.00					
I-215 NB Offramp	45.0	point36	36	717.3	1,648.3	1,520.00				Average	
		point17	17	1,167.8	1,871.4	1,525.00				Average	
		point18	18	1,281.5	1,989.5	1,528.00				Average	
		point19	19	1,355.9	2,173.2	1,530.00					
I-215-2	120.0	point39	39	980.0	2,337.3	1,515.00				Average	
		point10	10	1,294.7	2,754.9	1,520.00				Average	
		point11	11	1,552.7	3,192.3	1,525.00				Average	
		point12	12	1,727.6	3,603.4	1,530.00				Average	
		point13	13	1,823.9	3,918.3	1,530.00				Average	
		point14	14	1,876.4	4,123.9	1,530.00				Average	
		point15	15	1,950.7	4,425.7	1,530.00					
Clinton Keith Road-west of Creighton Av	100.0	point41	41	1,877.4	2,071.7	1,520.00				Average	

		point5	5	1,705.5	2,092.5	1,530.00				Average	
		point6	6	1,367.1	2,194.9	1,530.00				Average	
		point7	7	540.4	2,474.8	1,530.00					

Dudek 31 March 202
M Greene TNM 2.5

INPUT: TRAFFIC FOR LAeq1h Percentages
PROJECT/CONTRACT: 10773
RUN: RDA 2020 - Exi p Amb p Prj p Cmltv

Roadway	Points												
Name	Name	No.	Segment										
			Total	Autos		MTrucks		HTrucks		Buses		Motorcycles	
			Volume	P	S	P	S	P	S	P	S	P	S
			veh/hr	%	mph	%	mph	%	mph	%	mph	%	mph
Clinton Keith Rd - east of Creighton Ave	point1	1	4245	97	40	2	40	1	40	0	0	0	0
	point3	3	4245	97	40	2	40	1	40	0	0	0	0
	point4	4											
I-215	point29	29	11700	93	65	3	65	4	65	0	0	0	0
	point9	9											
I-215 NB Onramp	point31	31	100	97	45	2	45	1	45	0	0	0	0
	point21	21	100	97	45	2	45	1	45	0	0	0	0
	point22	22	100	97	45	2	45	1	45	0	0	0	0
	point23	23	100	97	45	2	45	1	45	0	0	0	0
	point24	24	100	97	45	2	45	1	45	0	0	0	0
	point25	25											
Whitewood Road	point33	33	1740	97	45	2	45	1	45	0	0	0	0
	point27	27											
I-215 NB Offramp	point36	36	100	97	45	2	45	1	45	0	0	0	0
	point17	17	100	97	45	2	45	1	45	0	0	0	0
	point18	18	100	97	45	2	45	1	45	0	0	0	0
	point19	19											
I-215-2	point39	39	11700	93	65	3	65	4	65	0	0	0	0
	point10	10	11700	93	65	3	65	4	65	0	0	0	0
	point11	11	11700	93	65	3	65	4	65	0	0	0	0
	point12	12	11700	93	65	3	65	4	65	0	0	0	0
	point13	13	11700	93	65	3	65	4	65	0	0	0	0
	point14	14	11700	93	65	3	65	4	65	0	0	0	0

INPUT: TRAFFIC FOR LAeq1h Percentages **10773**

	point15	15											
Clinton Keith Road-west of Creighton Av	point41	41	4378	97	40	2	40	1	40	0	0	0	0
	point5	5	4378	97	40	2	40	1	40	0	0	0	0
	point6	6	4378	97	40	2	40	1	40	0	0	0	0
	point7	7											

Dudek						**31 March 2020**					
M Greene						**TNM 2.5**					
INPUT: RECEIVERS											
PROJECT/CONTRACT:	**10773**										
RUN:	**RDA 2020 - Exi p Amb p Prj p Cmltv**										
Receiver											
Name	**No.**	**#DUs**	**Coordinates (ground)**			**Height**	**Input Sound Levels and Criteria**				**Active**
			X	**Y**	**Z**	**above**	**Existing**	**Impact Criteria**		**NR**	**in**
						Ground	**LAeq1h**	**LAeq1h**	**Sub'l**	**Goal**	**Calc.**
			ft	ft	ft	ft	dBA	dBA	dB	dB	
ST1	1	1	1,702.5	1,982.2	1,512.00	5.00	0.00	66	10.0	8.0	
ST2	2	1	3,422.5	1,837.3	1,510.00	5.00	0.00	66	10.0	8.0	
ST3	3	1	3,310.7	2,162.6	1,510.00	5.00	0.00	66	10.0	8.0	Y
ST4	4	1	3,272.5	2,640.2	1,510.00	5.00	0.00	66	10.0	8.0	
ST5	5	1	3,315.6	3,261.9	1,517.00	5.00	0.00	66	10.0	8.0	Y
M1	7	1	4,402.0	2,379.6	1,510.00	5.00	0.00	66	10.0	8.0	

Dudek 31 March 2020
M Greene TNM 2.5

INPUT: BARRIERS
PROJECT/CONTRACT: 10773
RUN: RDA 2020 - Exi p Amb p Prj p Cmltv

Barrier									Points										
Name	Type	Height		If Wall	If Berm			Add'tnl	Name	No.	Coordinates (bottom)			Height	Segment				
		Min	Max	$ per Unit Area	$ per Unit Vol.	Top Width	Run:Rise	$ per Unit Length			X	Y	Z	at Point	Seg Ht Incre-ment	Perturbs #Up	#Dn	On Struct?	Important Reflec-tions?
		ft	ft	$/sq ft	$/cu yd	ft	ft:ft	$/ft			ft	ft	ft	ft	ft				
Barrier1	W	0.00	99.99	0.00				0.00	point1	1	3,293.2	2,144.9	1,510.00	6.00	0.00	0	0		
									point2	2	3,801.1	2,135.3	1,510.00	6.00	0.00	0	0		
									point3	3	3,891.6	2,142.2	1,510.00	6.00	0.00	0	0		
									point4	4	4,384.6	2,142.2	1,510.00	6.00	0.00	0	0		
									point5	5	4,413.2	2,143.7	1,510.00	6.00	0.00	0	0		
									point6	6	4,422.0	3,547.7	1,510.00	6.00					
Barrier11	W	0.00	99.99	0.00				0.00	point10	10	3,293.3	2,145.3	1,510.00	10.00	0.00	0	0		
									point8	8	3,289.2	2,570.5	1,510.00	10.00					
Barrier21	W	0.00	99.99	0.00				0.00	point11	11	3,201.5	1,661.5	1,510.00	20.00	0.00	0	0		
									point37	37	3,204.3	1,713.9	1,510.00	20.00	0.00	0	0		
									point38	38	3,413.7	1,713.9	1,510.00	20.00	0.00	0	0		
									point39	39	3,411.0	1,653.3	1,510.00	20.00					
Barrier8	W	0.00	99.99	0.00				0.00	point48	48	3,325.9	2,270.4	1,510.00	20.00	0.00	0	0		
									point13	13	3,323.7	2,163.3	1,510.00	20.00	0.00	0	0		
									point14	14	3,787.3	2,158.9	1,510.00	20.00	0.00	0	0		
									point15	15	3,787.3	2,272.6	1,510.00	20.00					
Barrier9	W	0.00	99.99	0.00				0.00	point50	50	3,894.5	2,263.9	1,510.00	20.00	0.00	0	0		
									point17	17	3,901.0	2,165.4	1,510.00	20.00	0.00	0	0		
									point18	18	4,275.0	2,158.9	1,510.00	20.00	0.00	0	0		
									point46	46	4,272.8	2,266.0	1,510.00	20.00					
Barrier10	W	0.00	99.99	0.00				0.00	point52	52	4,323.8	2,378.3	1,510.00	20.00	0.00	0	0		
									point20	20	4,321.0	2,157.9	1,510.00	20.00	0.00	0	0		
									point21	21	4,395.4	2,160.7	1,510.00	20.00	0.00	0	0		
									point22	22	4,398.2	2,381.1	1,510.00	20.00					
Barrier 5	W	0.00	99.99	0.00				0.00	point54	54	4,086.8	2,609.8	1,510.00	20.00	0.00	0	0		
									point24	24	4,097.8	2,923.9	1,510.00	20.00	0.00	0	0		
									point25	25	4,340.3	2,918.4	1,510.00	20.00	0.00	0	0		
									point45	45	4,343.1	3,406.1	1,510.00	20.00	0.00	0	0		
									point26	26	3,403.5	3,411.6	1,510.00	20.00	0.00	0	0		
									point27	27	3,422.8	2,609.8	1,510.00	20.00					
Barrier7	W	0.00	99.99	0.00				0.00	point56	56	3,305.6	2,340.4	1,510.00	20.00	0.00	0	0		
									point29	29	4,282.4	2,337.0	1,510.00	20.00	0.00	0	0		
									point30	30	4,276.9	2,546.4	1,510.00	20.00	0.00	0	0		
									point31	31	3,309.8	2,557.5	1,510.00	20.00	0.00	0	0		
									point33	33	3,308.6	2,342.3	1,510.00	20.00					

Barrier6	W	0.00	99.99	0.00				0.00	point58	58	3,318.3	3,099.4	1,510.00	20.00	0.00	0	0		
									point35	35	3,310.0	2,589.7	1,510.00	20.00	0.00	0	0		
									point36	36	3,376.2	2,586.9	1,510.00	20.00	0.00	0	0		
									point12	12	3,381.7	3,093.9	1,510.00	20.00					
Barrier20	W	0.00	99.99	0.00				0.00	point60	60	3,433.3	1,768.9	1,510.00	20.00	0.00	0	0		
									point41	41	3,434.4	1,876.1	1,510.00	20.00	0.00	0	0		
									point42	42	3,552.5	1,875.0	1,510.00	20.00	0.00	0	0		
									point43	43	3,552.5	1,771.1	1,510.00	20.00					
Barrier19	W	0.00	99.99	0.00				0.00	point61	61	1,708.0	2,180.4	1,530.00	0.00	0.00	0	0		
									point62	62	1,819.1	2,524.1	1,540.00	0.00	0.00	0	0		
									point63	63	1,871.2	2,975.4	1,550.00	0.00	0.00	0	0		
									point64	64	1,968.4	3,697.5	1,550.00	0.00	0.00	0	0		
									point65	65	1,975.3	4,003.0	1,540.00	0.00					
Barrier22	W	0.00	99.99	0.00				0.00	point67	67	1,779.6	1,933.4	1,530.00	20.00	0.00	0	0		
									point68	68	1,659.0	1,949.5	1,530.00	20.00	0.00	0	0		
									point69	69	1,506.3	2,035.2	1,530.00	20.00	0.00	0	0		
									point70	70	1,238.3	1,737.8	1,530.00	20.00	0.00	0	0		
									point71	71	1,160.6	1,692.2	1,530.00	20.00					
Wall - 6'	W	0.00	99.99	0.00				0.00	point72	72	3,289.2	2,570.5	1,510.00	6.00	0.00	0	0		
									point74	74	3,291.3	2,898.6	1,512.33	6.00	0.00	0	0		
									point75	75	3,293.3	3,226.7	1,517.00	6.00	0.00	0	0		
									point73	73	3,295.4	3,554.8	1,520.00	6.00					

Dudek
M Greene

31 March 2020
TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS
PROJECT/CONTRACT: 10773
RUN: RDA 2020 - Exi p Amb p Prj p Cmltv
BARRIER DESIGN: INPUT HEIGHTS
ATMOSPHERICS: 68 deg F, 50% RH

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Crit'n Sub'l Inc	Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Goal	Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
ST1	1	1	0.0	63.1	66	63.1	10	----	63.1	0.0	8	-8.0
ST2	2	1	0.0	62.0	66	62.0	10	----	62.0	0.0	8	-8.0
ST3	3	1	0.0	61.6	66	61.6	10	----	61.6	0.0	8	-8.0
ST4	4	1	0.0	54.6	66	54.6	10	----	54.6	0.0	8	-8.0
ST5	5	1	0.0	46.9	66	46.9	10	----	46.9	0.0	8	-8.0
M1	7	1	0.0	58.1	66	58.1	10	----	58.1	0.0	8	-8.0

Dwelling Units	# DUs	Noise Reduction Min	Avg	Max
		dB	dB	dB
All Selected	6	0.0	0.0	0.0
All Impacted	0	0.0	0.0	0.0
All that meet NR Goal	0	0.0	0.0	0.0

APPENDIX H-4

Equipment Noise Calculations

Vineyard III Project, Murrieta

On-Site Noise Calculations - HVAC

Building	HVAC Units				Distance from residents (approximate worst-case) (feet)	Resultant Unattenuated Noise Level (dBA L_{eq})		Resultant Combined Unattenuated Noise Level (dBA Leq)	Attenuation from Building Parapets (dB)	Resultant noise level with Attenuation (dBA L_{eq})		Resultant Combined Noise Level (dBA L_{eq})
	Quantity	Sizing Assumptions (10-ton or 5-ton)		Capacity (in tons)								
		5 ton	10 ton			5 ton	10 ton			5 ton	10 ton	
Building Y	3	2	1	20	186	41.1	43.1	45.2	7.7	33.4	35.3	37.5
Buildging X	2	2	0	10	240	38.9	0.0	38.9	7.4	31.5	0.0	31.5
Building W1	3	3	0	15	340	37.6	0.0	37.6	7.1	30.6	0.0	30.6
Building W2	5	4	1	30	407	37.3	36.3	39.8	6.5	30.8	29.8	33.3
Building W3	3	3	0	15	470	34.8	0.0	34.8	6.2	28.7	0.0	28.7
Building V	7	7	0	35	680	35.3	0.0	35.3	5.7	29.6	0.0	29.6
Building U	5	5	0	25	840	32.0	0.0	32.0	5.5	26.5	0.0	26.5
Building T	4	4	0	20	1040	29.2	0.0	29.2	5.3	23.8	0.0	23.8
Combined noise level at nearest noise-sensitive receivers (worst-case)												
	Cumlative Total											**41.0**

Assumptions:
SPLs (shown) calculated based upon Lennox specifications (provided in Appendix H)

5-Ton Unit 49.5 at 50 feet

10-Ton Unit 54.5 at 50 feet

Building Square Footage (SF) and HVAC Tallies - Vineyard III

Based on information from Allan Davis, there would be 30 5-ton units and 2 10-ton units

Building	Distance to Nearest Receiver (Feet)	SF	Number of HVAC units	Number of HVAC units (rounded)	Sizing Assumptions (10-ton or 5-ton)	
					5	10
Building Y	166	3470	3.47	3	2	1
Buildging X	220	2500	2.5	2	2	
Building W1	320	2500	2.5	3	3	
Building W2	387	4500	4.5	5	4	1
Building W3	450	3000	3	3	3	
Building V	660	7150	7.15	7	7	
Building U	820	5000	5	5	5	
Building T	1020	4000	4	4	4	
			32.12	**32**	**30**	**2**

Project: Vineyard III Murrieta
Date: 8/16/19
By: MGG

Please Enter: Using English (E) units or Metric (M) units ? **E**

Ray Trace Number/Description	Source-Receiver Distance (ft. or m)	Source Base Elev. (ft. or m)	Source Height above Ground (ft. or m)	Receiver Base Elev. (ft. or m)	Receiver Height above Ground (ft. or m)	Horizontal Barrier Dist. (in ref. to source) (ft. or m)	Barrier Base Elev. (ft. or m)	Barrier Height (ft. or m)	Dominant Freq.(Hz)	Source-Rcvr Straight-Line Dist. (ft. or m)	Source-Top-of-Barrier Dist. (ft. or m)	Receiver-Top-of-Barrier Dist. (ft. or m)	Lambda	N_{max}	$AE_{(barriers)}$ (dB)
Building Y	186.0	1526.0	23.0	1518.0	5.0	20.0	1545.0	**4.0**	500.0	187.8	20.0	168.0	2.3	0.2	**7.7**
Buildging X	240.0	1528.0	26.0	1518.0	5.0	20.0	1550.0	**4.0**	500.0	242.0	20.0	222.2	2.3	0.2	**7.4**
Building W1	340.0	1532.0	32.0	1518.0	5.0	20.0	1560.0	**4.0**	500.0	342.5	20.0	322.6	2.3	0.1	**7.1**
Building W2	407.0	1532.0	32.0	1518.0	5.0	20.0	1560.0	**4.0**	500.0	409.1	20.0	389.2	2.3	0.1	**6.5**
Building W3	470.0	1532.0	32.0	1518.0	5.0	20.0	1560.0	**4.0**	500.0	471.8	20.0	451.9	2.3	0.1	**6.2**
Building V	680.0	1537.0	30.0	1518.0	5.0	20.0	1563.0	**4.0**	500.0	681.4	20.0	661.5	2.3	0.0	**5.7**
Building U	840.0	1541.0	29.0	1518.0	5.0	20.0	1566.0	**4.0**	500.0	841.3	20.0	821.3	2.3	0.0	**5.5**
Building T	1040.0	1541.0	29.0	1518.0	5.0	20.0	1566.0	**4.0**	500.0	1041.1	20.0	1021.1	2.3	0.0	**5.3**

HVAC Calcs - Vineyard III
Sound Power Level, Sound Pressure Level

Per Diehl, pg. 80:

Lp=Ld=Lw-20*Log(R)+2.5, in feet - true for a free field above a reflecting plane.
(Ref: Diehl, George M. Machinery Acoustics, 1974.)

Test Lw (dBA)	Test R (Ft)	Diehl (Reflecting Plane): Lp (dBA)
81.0	50.0	49.5
86.0	50.0	54.5

AIR CONDITIONERS

ELS

ELITE® COMMERCIAL SPLIT SYSTEMS

R-410A - 60 HZ

Bulletin No. 210804
February 2018

PRODUCT SPECIFICATIONS



072-090 Models



120-150 Models

ELITE® SERIES



180-240 Models

EER up to 12.0
6 to 20 Tons
Cooling Capacity - 71,000 to 232,000 Btuh

MODEL NUMBER IDENTIFICATION

EL S 120 S 4 S T 1 Y

Brand/Family
EL = Elite® Product Line

Unit Type
S = Split System Air Conditioner

Nominal Cooling Capacity – Tons
072 = 6 Tons
090 = 7.5 Tons
120 = 10 Tons
150 = 12.5 Tons
180 = 15 Tons
240 = 20 Tons

Cooling Efficiency
S = Standard Efficiency

Refrigerant Type
4 = R–410A

Refrigerant Circuits
S = Single Circuit
D = Dual Circuits

Part Load Capability
S = Single StageCompressor
T = Dual Stage Compressor

Minor Design Sequence
1 = 1st Revision
2 = 2nd Revision
3 = 3rd Revision

Voltage
Y = 208/230V-3 phase-60hz
G = 460V-3 phase-60hz
J = 575V-3 phase-60hz

AHRI SYSTEM MATCHES

Model	Cooling Btuh	EER	IEER	Air Handler	Expansion Device	AHRI Reference
ELS072S4S	71,000	12.0	16.0	ELA072S4S	Factory TXV	201753420
ELS090S4S	89,000	11.2	14.4	ELA090S4D	Factory TXV	201753421
ELS120S4S	115,000	11.2	14.4	ELA120S4D	Factory TXV	201753423
ELS120S4D	115,000	11.2	12.9	ELA120S4D	Factory TXV	201753422
ELS150S4D	136,000	11.0	12.4	ELA150S4D	Factory TXV	201753424
ELS180S4D	178,000	11.0	12.4	ELA180S4D	Factory TXV	201753975
ELS240S4D	232,000	11.0	12.4	ELA240S4D	Factory TXV	201753426

NOTES - Units with capacity of 65,000 Btuh or greater are AHRI Certified to AHRI Standard 340/360: 95°F outdoor air temperature, 80°F db/67°F wb entering evaporator air (minimum external duct static pressure) with 25 ft. of connecting refrigerant lines.

SOUND DATA

[1] Unit Model No.	Octave Band Linear Sound Power Levels dB, re 10^{-12} Watts Center Frequency - HZ							[1] Sound Rating Number (dB)
	125	250	500	1000	2000	4000	8000	
ELS072S4S	65	68	73	76	72	68	63	81
ELS090S4S	64	69	73	77	74	70	63	81
ELS120S4S	70	77	82	81	77	75	71	86
ELS120S4D	71	77	80	80	77	72	67	85
ELS150S4D	68	77	80	82	78	73	65	86
ELS180S4D	73	80	83	83	79	74	66	88
ELS240S4D	73	80	85	84	80	78	74	89

NOTE - the octave sound power data does not include tonal correction.

[1] Tested according to AHRI Standard 270 test conditions.

Drive-Through Lane Noise - Vineyard III Project

Reference: Illingworth and Rodkin, Inc. 2010. In-N-Out Burger, North Main Street, Environmental Noise Assessment, Pleasant Hill, California. June 10, 2010. Petaluma, CA. http://www.ci.pleasant-

As measured at 20 feet:

Speaker Noise:
62 to 67 dBA Lmax

Vehicle Noise (Typical)
56 to 58 dBA Lmax

Occasional Louder Vehicles:
70 to 72 dBA Lmax

Average Drive-Through Lane Noise
63 dBA Leq

At 200 feet:
Speaker Noise:
42 to 47 dBA Lmax

Vehicle Noise (Typical)
36 to 38 dBA Lmax

Occasional Louder Vehicles:
50 to 52 dBA Lmax

Average Drive-Through Lane Noise
43 dBA Leq

Appendix I

Traffic Impact Analysis

CURCI PROPERTY
TRAFFIC IMPACT ANALYSIS
CITY OF MURRIETA, CALIFORNIA

March 10, 2020 (REVISED)
DECEMBER 24, 2019 (REVISED)
DECEMBER 6, 2019 (REVISED)
JULY 19, 2019 (REVISED)
NOVEMBER 19, 2018

Prepared for:

Mr. Allan Davis
Retail Development Advisors/Lambda Inv./Scott 215 LP
27890 Clinton Keith Road D490
Murrieta, CA 92562

Prepared by:



Scott Sato, P.E.
4225 Oceanside Blvd., #354H
Oceanside, CA 92056

TRAMES SOLUTIONS INC.

(0035-0003-05)

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1.0 INTRODUCTION AND SUMMARY

A. Purpose of the TIA and Study Objectives

The purpose of this traffic impact analysis (TIA) is to evaluate the traffic impact of the proposed Curci Property development. The project is to be developed with approximately 33,650 square feet (sf) of retail/commercial uses (4,000 sf auto related service, 5,000 sf tire store, 11,650 sf retail, 3,000 sf sit down restaurant, 5,000 sf fast food restaurant, and 5,000 sf bank). The project is located north of Clinton Keith Road, east of I-215 freeway in the City of Murrieta. Figure 1-A illustrates the site location and the traffic analysis study area.

Study objectives include the following:

Existing Traffic. Existing traffic was counted to determine current conditions. This constitutes the environmental setting for a CEQA analysis at the time that the hearing body reviews the project. Traffic count data shall be new or recent. In some cases, data up to one year old may be acceptable with the approval of the City of Murrieta Engineering Department. Any exception to this must be requested prior to approval of the scoping agreement

Existing + Ambient + Project (EAP 2021). Traffic conditions prior to the time that the proposed development is completed will be estimated by increasing the existing traffic counts by an appropriate growth rate (2%), projected to the year that the project is estimated to be completed (2021). This will be the basis for determining near-term no project-conditions.

Existing + Ambient + Project + Cumulative (EAPC 2021). Traffic generated by the proposed project shall be identified and added to the EAP traffic conditions. This scenario will be analyzed, and a determination made if improvements funded through an approved funding mechanism (TUMF, DIF, CFD, RBBD etc.) can accommodate the cumulative traffic at the target Level of Service (LOS) identified in the General Plan. If the “funded” improvements can provide the target LOS, payment into the fee program will be considered as cumulative mitigation through the conditions of approval. Other improvements needed beyond the “funded” improvements (such as localized improvements to non-TUMF facilities) should be identified as such.

FIGURE 1-A
STUDY AREA



LEGEND:

7 = EXISTING INTERSECTION ANALYSIS LOCATION

= FUTURE ROAD

= WARM SPRINGS PARKWAY,
FUTURE ROADWAY DEFERRED - CITY TO EXTEND

N

B. Study Area

The project site is generally located north of Clinton Keith Road and east of I-215 Freeway in the City of Murrieta. Figure 1-A illustrates the site location and the traffic analysis study area. The study area is based on the approved scoping agreement included in Appendix A.

Study Area Intersections
1. McElwain Rd. / Clinton Keith Rd.
2. I-215 SB Ramps / Clinton Keith Rd.
3. I-215 NB Ramps / Clinton Keith Rd.
4. Creighton Ave. / Clinton Keith Rd.
5. Whitewood Rd. / Clinton Keith Rd.
6. Vista Murrieta HS W. Dwy. / Clinton Keith Rd.
7. Bronco Wy. / Clinton Keith Rd.
8. Antelope Rd. / Baxter Rd.

Roadway Segment Locations
1. Clinton Keith Road, west of Creighton Ave.
8. Clinton Keith Road, east of Creighton Ave.

C. Development Project Identification

1. Project Size and Description

The Curci Property Site is proposed to be developed with approximately 33,650 square feet (sf) of retail/commercial uses (4,000 sf auto related service, 5,000 sf tire store, 11,650 sf retail, 3,000 sf sit down restaurant, 5,000 sf fast food restaurant, and 5,000 sf bank). The project is located north of Clinton Keith Road and east of I-215 Freeway in the City of Murrieta.

2. Existing Land Use

The project site is currently vacant. Adjacent uses include the following:

- North – Vacant/Residential
- South –Residential
- East – Vacant
- West – I-215 Freeway

3. Proposed Land Use

The project will consist of retail/commercial uses.

4. Site Plan of Proposed Project

Figure 1-B illustrates the conceptual land use plan. As shown on Figure 1-B access to the project site is provided via Antelope Road and future northerly extension of Creighton Avenue.

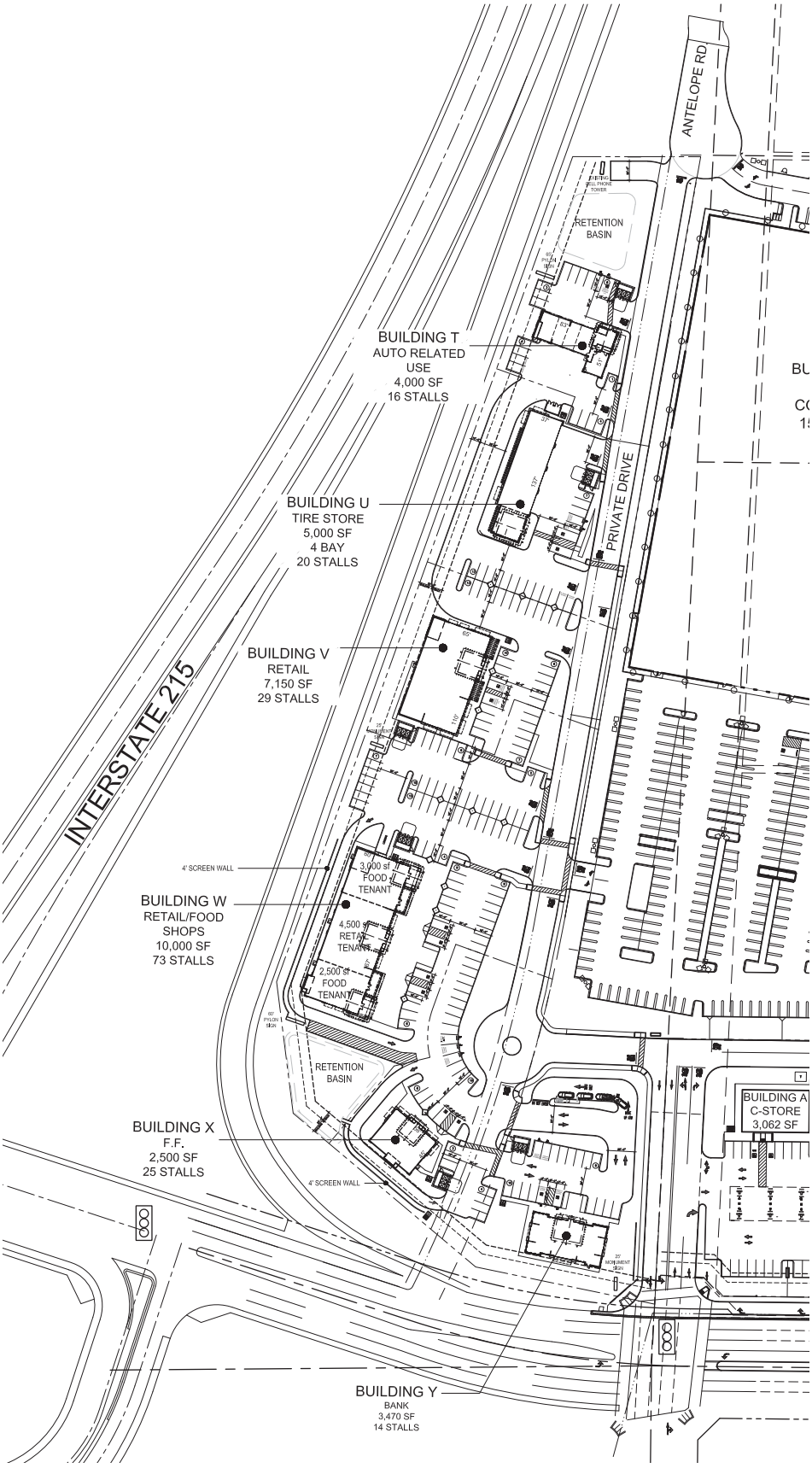
5. Proposed Project Opening Year

The proposed project is anticipated to be completed in 2021. Future traffic analysis has been based upon a 2% annual background (ambient) growth along with traffic generated by other future developments in the surrounding area.

6. Proposed Project Phasing

The project is expected to be completed in a single phase. Therefore, traffic recommendations included in this report have not been separated into different development phases.

FIGURE 1-B
SITE PLAN



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2.0 TRAFFIC ANALYSIS METHODOLOGIES

Traffic operations are quantified through the determination of "Level of Service" (LOS). Level of Service is a qualitative measure of traffic operating conditions, whereby a letter grade "A" through "F" is assigned to an infrastructure facility (intersection) representing progressively worsening traffic conditions. This section presents the LOS definition, LOS criteria and methodologies for the Intersection Operations.

A. Level of Service Definition

The definitions of Level of Service for uninterrupted flow (flow unrestrained by the existence of traffic control devices) are:

- LOS "A": Completely free-flow conditions. The operation of vehicles is virtually unaffected by the presence of other vehicles, and operations are constrained only by the geometric features of the highway and by driver preferences. Maneuverability within the traffic stream is good. Minor disruptions to flow are easily absorbed without a change in travel speed.

- LOS "B": Free flow conditions, although the presence of other vehicles becomes noticeable. Average travel speeds are the same as in LOS "A", but drivers have slightly less freedom to maneuver. Minor disruptions are still easily absorbed, although local deterioration in LOS will be more obvious.

- LOS "C": The influence of traffic density on operations becomes marked. The ability to maneuver within the traffic stream is clearly affected by other vehicles. Minor disruptions can cause serious local deterioration in service, and queues will form behind any significant traffic disruption.

- LOS "D": The ability to maneuver is restricted due to traffic congestion. Travel speed is reduced by the increasing volume. Only minor disruptions can be absorbed without extensive queues forming and the service deteriorating.

- LOS "E": Operations at or near capacity, an unstable level. Vehicles are operating with the minimum spacing for maintaining uniform flow.

- LOS "F": Forced or breakdown flow. It occurs either when vehicles arrive at a rate greater than the rate at which they are discharged or when the forecast demand exceeds the computed capacity of a planned facility. Although operations at these points – and on sections immediately downstream – appear to be at capacity, queues form behind these breakdowns. Operations within queues are highly unstable, with vehicles experiencing brief periods of movement followed by stoppages.

B. Level of Service Criteria

The City of Murrieta has established Level of Service (LOS) "D" as the maximum allowable threshold for the intersection operations. Therefore, LOS "E" or "F" is considered unacceptable and requires improvements measures. For roadway segments, LOS C is deemed acceptable. However, the City's General Plan indicates that LOS D is allowed in certain areas, including the North Murrieta Business Corridor and Multiple use focus area, which include the Project site and study area roadways. Therefore, LOS D is deemed acceptable for roadway segments along Clinton Keith Road.

C. Intersection Operations Analysis Methodology

Caltrans requires the use of the Transportation Research Board - Highway Capacity Manual (HCM). The HCM defines level of service as a qualitative measure, which describes operational conditions within a traffic stream, generally in terms of such factors as speed and travel time, freedom to maneuver, traffic interruptions, comfort and convenience, and safety. The criteria used to evaluate Level of Service (LOS) conditions vary based on the type of roadway and whether the traffic flow is considered interrupted or uninterrupted. The HCM methodology expresses the level of service at an intersection in terms of delay time for the various intersection approaches. The HCM uses different procedures depending on the type of intersection control.

The level of service is typically dependent on the quality of traffic flow at the intersections along a roadway. The HCM methodology expresses the level of service at an intersection in terms of delay time for the various intersection approaches. The HCM uses different procedures depending on the type of intersection control. The Levels of Service results in this study are determined using the HCM methodology.

For signalized intersections, average total delay per vehicle for the overall intersection is used to determine level of service. The study area intersections which are stop sign controlled with stop control on the minor street only has been analyzed using the unsignalized intersection methodology of the HCM. For these intersections, the calculation of level of service is dependent on the occurrence of gaps occurring in the traffic flow of the main street. Using data collected describing the intersection configuration and traffic volumes at the study area locations; the level of service has been calculated. The level of service criteria for this type of intersection analysis is based on average total delay per vehicle for the worst minor street movement(s).

For all way stop (AWS) controlled intersections, the ability of vehicles to enter the intersection is not controlled by the occurrence of gaps in the flow of the main street. The AWS controlled intersections have been evaluated using the HCM methodology for this type of multi-way stop controlled intersection configuration. The level of service criteria for this type of intersection analysis is based on average total delay per vehicle.

The levels of service are defined for the various analysis methodologies as follows:

LEVEL OF SERVICE	AVERAGE TOTAL DELAY PER VEHICLE (SECONDS)	
	SIGNALIZED	UNSIGNALIZED
A	0 to 10.00	0 to 10.00
B	10.01 to 20.00	10.01 to 15.00
C	20.01 to 35.00	15.01 to 25.00
D	35.01 to 55.00	25.01 to 35.00
E	55.01 to 80.00	35.01 to 50.00
F	80.01 and up	50.01 and up

Levels of service at the study area intersections have been evaluated using the following HCM intersection analysis program: Synchro 10.0. The signal timing for the intersections have been provided by City of Murrieta and Caltrans staff.

Peak hour factors (PHF), where known from existing traffic counts, have been used to assess intersection operations. Truck percentages along Winchester Road have been included in the analysis.

D. Roadway Segment Analysis Methodology

Roadway Segment analysis has been evaluated based on the Link Volume Capacities/Level of Service for the City of Murrieta Roadways. Roadway segment analysis has been assessed based on average daily traffic (ADT) volumes shown in this report for each analysis scenario. For the purpose of this report, letter grades for each study area roadway segments have been assigned for each analysis scenario based on the following roadway segment capacities for each of the City of Murrieta roadway classifications are summarized below:

LEVEL OF SERVICE	V/C Ratio
A	0.00 to 0.60
B	0.61 to 0.70
C	0.71 to 0.80
D	0.81 to 0.90
E	0.91 to 1.00
F	> 1.00

Roadway segment analysis is suitable for planning purposes and not a precise measure of capacity. The ultimate capacity of a roadway is based upon several factors such as the relationships between peak hour and daily traffic volumes, intersection spacing, configuration, and control features, vehicle mix, and pedestrian/bicycle traffic. Furthermore, where the roadway segment analysis indicates a deficiency (LOS "D" or worse unless this segment is within the zone where LOS "D" is allowed, per GP section 5.6 (CIR-1.3)) a review of the more detailed peak hour intersection analysis is typically undertaken. The intersection analysis explicitly accounts for factors that affect roadway capacity. Therefore, roadway segment widening is typically recommended if the peak hour intersection analysis indicates the need for additional through lanes.

E. Freeway Ramp Analysis

For the purpose of this report, merge/diverge operations analysis methods have been used to evaluate freeway on-ramps and off-ramps. The density and level of service at the I-215/Clinton Keith Road on and off-ramps have been evaluated using the HCS2010 Ramps Version 6.65 software. The measure of effectiveness (reported in passenger car/mile/lane) are calculated based on the existing number of travel lanes, number of lanes at the on and off ramps both at the analysis junction and at upstream and downstream locations (if applicable) and acceleration/deceleration lengths at each merge/diverge point. The merge/diverge area LOS thresholds for each density range utilized in this report is presented as follows:

LEVEL OF SERVICE	DENSITY RANGE (pc/mi/ln)[1]
A	0.0 – 10.0
B	10.1 – 20.0
C	20.1 – 28.0
D	28.1 – 35.0
E	>35.0
F	Demand Exceeds Capacity

[1] pc/mi/ln = passenger cars per mile per lane.

F. Turn Pocket Queuing Evaluation

A queuing deficiency is identified in the no-Project condition if the calculated 95th -percentile queue length exceeds the storage length by more than 25 feet (the average storage length for one additional vehicle) since the bay taper can typically store at least one vehicle. A significant queuing impact is determined if the Project causes the calculated 95th -percentile queue length to exceed the existing or planned storage capacity at a signalized intersection by more than 25 feet. In storage lanes that are already deficient without the Project, a significant queuing impact is determined if the Project increases the calculated 95th -percentile queue length by at least 25 feet. Where left-turn lanes connect to two-way left-turn lanes, although the calculated queue may exceed the length of the painted left-turn pocket, the presence of the two-way left-turn lane provides additional storage and allows the queue to avoid spilling into through lanes. Therefore, queues exceeding the painted storage length in these situations are not highlighted as existing deficiencies because they do not contribute to operational problems.

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3.0 AREA CONDITIONS

A. Study Area and Intersections

In general, the study area is based on the projects' trip generation and distribution assumptions. Intersections where the project is likely to add 50 or more peak hour trips have been included for analysis purposes. See Table 1-1, Section 1.B.

B. Area Roadway System

Figure 3-A identifies the existing roadway conditions for study area roadways. The existing intersection traffic controls and geometrics are identified.

The City of Murrieta Circulation Element and Roadway Cross-Sections are depicted on Figure 3-B.

C. Existing Traffic Volumes

Existing intersection level of service calculations are based upon manual AM and PM peak hour turning movement counts made in November/December 2017 and May 2018. Saturday traffic volumes were obtained from the Murrieta Costco and Vineyard II TIA, prepared by Kittleson & Associates (November 2019). Existing AM, PM, and Saturday peak hour intersection turning movement volumes are shown on Figures 3-C through Figure 3-E, respectively.

In addition, existing traffic volumes utilized for future traffic conditions have been adjusted to reflect the future connection of Clinton Keith Road and French Valley Parkway.

The traffic count worksheets are included in Appendix "B".

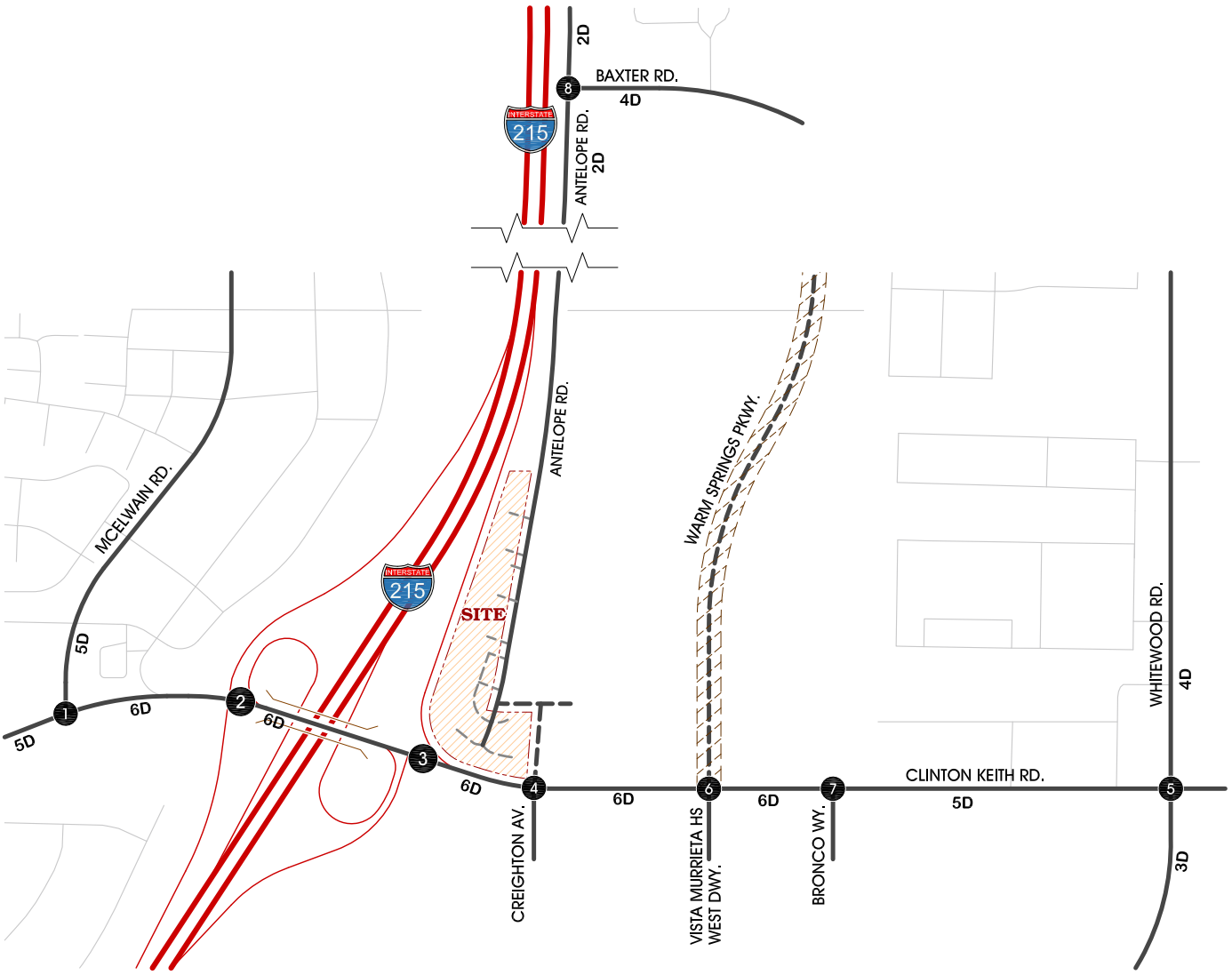
D. Existing Delay and Level of Service

The results of the existing conditions intersection analysis are summarized in Table 3-1.1. The existing condition operations analysis worksheets are provided in Appendix "C". As shown in Table 3-1.1, the study area intersections are currently operating at acceptable level of service (LOS "D" or better) during the peak hours with the existing geometry and traffic controls. The 95th percentile queueing analysis results for existing traffic conditions are presented in Table 3-1.2. The queuing analysis worksheets are also included in Appendix "C".

Table 3-2 provides a summary of the Existing conditions roadway segment capacity analysis. As shown on Table 3-2, the roadway segments are operating at acceptable levels of service (at or better than LOS "C" capacity thresholds) with existing geometry.

FIGURE 3-A

EXISTING TRAFFIC CONTROLS AND INTERSECTION GEOMETRICS



1. McElwain Rd. / Clinton Keith Rd.	2. I-215 SB Ramps / Clinton Keith Rd.	3. I-215 NB Ramps / Clinton Keith Rd.	4. Creighton Av. / Clinton Keith Rd.	5. Whitewood Rd. / Clinton Keith Rd.
RT OVL	FREE RT	FREE RT FREE RT		
6. Vista Murrieta W. Dwy. / Clinton Keith Rd.	**7. Bronco Wy. / Clinton Keith Rd.**	**8. Antelope Rd. / Baxter Rd.**		
	DEF			

LEGEND:

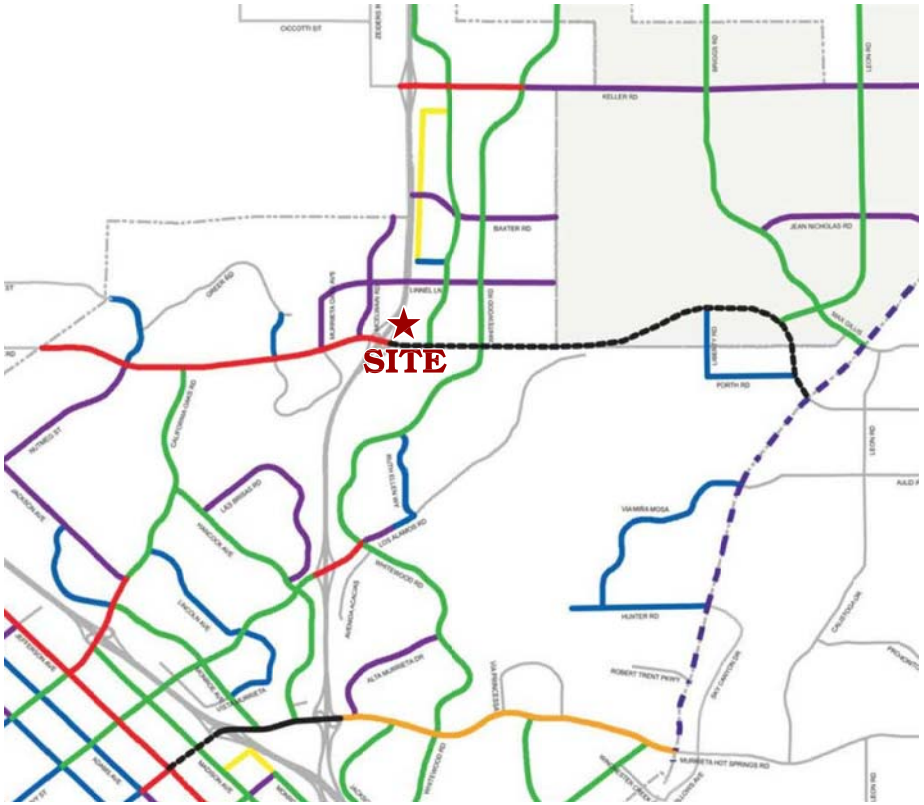
8	= INTERSECTION ID	4	= NUMBER OF LANES
	= TRAFFIC SIGNAL	D	= DIVIDED
	= STOP SIGN	U	= UNDIVIDED
FREE RT	= FREE RIGHT TURN	DEF	= DEFACTO RIGHT TURN LANE
RT OVL	= RIGHT TURN OVERLAP PHASE		
	= FUTURE ROAD		
	= WARM SPRINGS PARKWAY, FUTURE ROADWAY DEFERRED - CITY TO EXTEND		

N

FIGURE 3-B

CITY OF MURRIETA GENERAL PLAN 2035 CIRCULATION MAP AND TYPICAL STREET SECTIONS

CIRCULATION MAP



LEGEND

	* Curb to Curb / R/W		* Curb to Curb / R/W		
County of Riverside Expressway	110' / 184'	Major	76' / 100'	Selected Roadways Shown for Clarity	
Augmented Urban Arterial	126' / 150'	Secondary	64' / 88'	City of Murrieta Boundary	
Multi-Modal Transp. Corridor	86' / 134'	Industrial Collector	56' / 78'	Sphere of Influence	
Urban Arterial	110' / 134'	Collector	44' / 66'		
Arterial	86' / 110'				

TYPICAL STREET SECTIONS

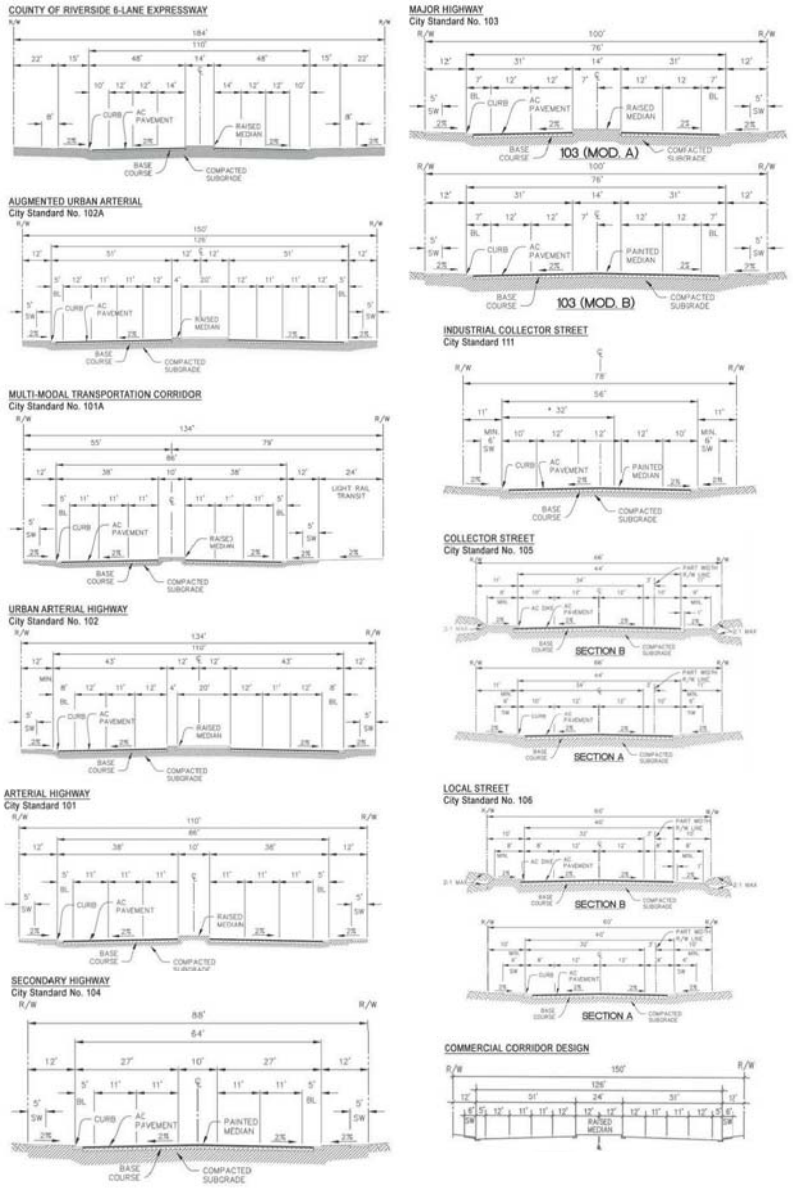
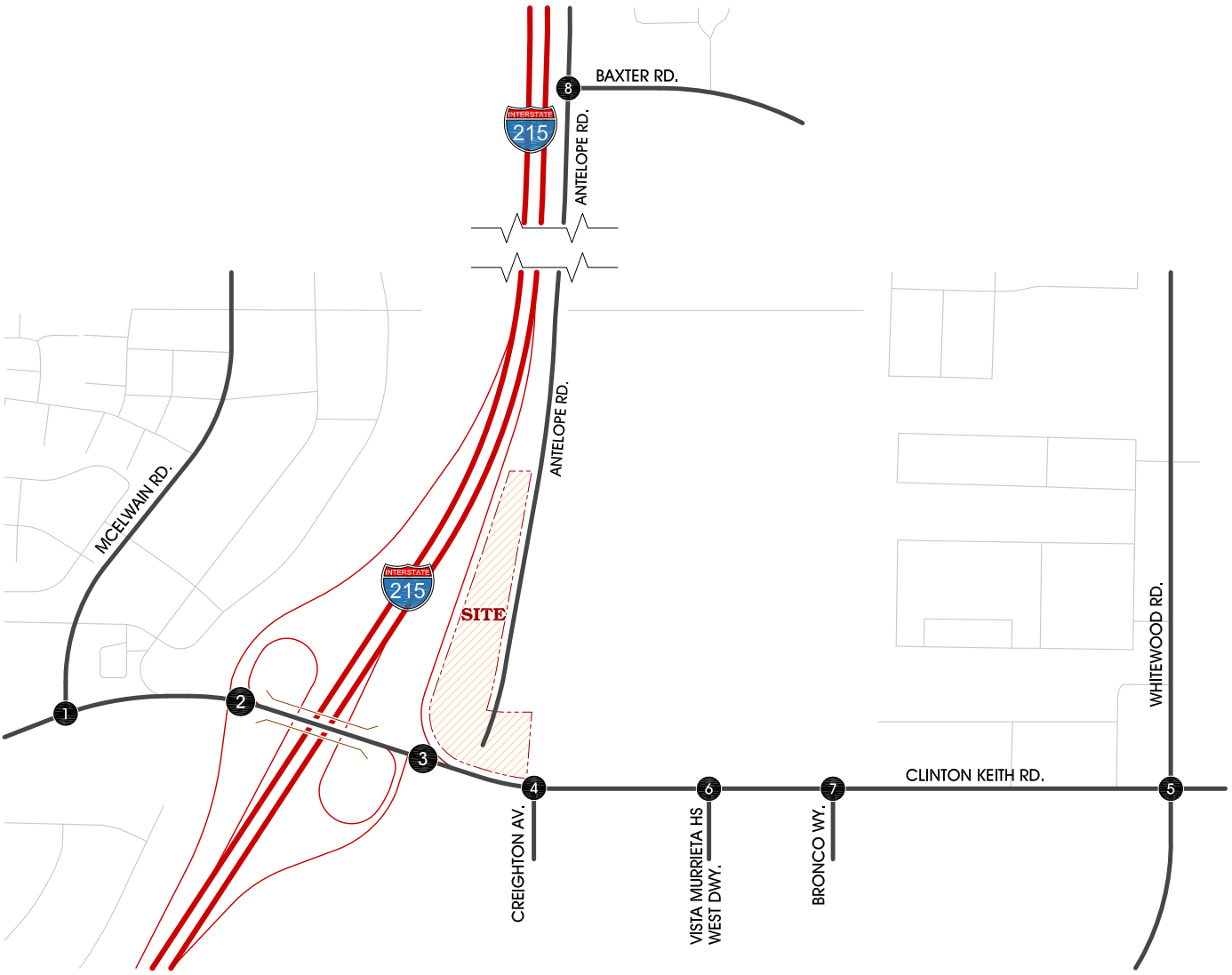


FIGURE 3-C
EXISTING AM PEAK HOUR INTERSECTION VOLUMES



1. McElwain Rd. / Clinton Keith Rd.		2. I-215 SB Ramps / Clinton Keith Rd.		3. I-215 NB Ramps / Clinton Keith Rd.		4. Creighton Av. / Clinton Keith Rd.		5. Whitewood Rd. / Clinton Keith Rd.	
188 ↓ 3 ↑ 306	← 89 ← 994 ↱ 3	620 ↓ 1 ↑ 118	↳ 313 ← 610		↳ 145 ← 756		← 802 ↱ 30 ↱ 0	355 ↓ 297 ↱ 0	↳ 0 ← 0 ↱ 0
240 → 1339 → 5 ↳	5 ↑ 0 ↑ 5	1229 → 472 ↳		571 → 753 ↳	185 ↑ 495 ↑	6 ↻ 1001 → 70 ↳	122 ↑ 23 ↑	287 → 0 → 253 ↳	238 ↑ 127 ↑ 0 ↑

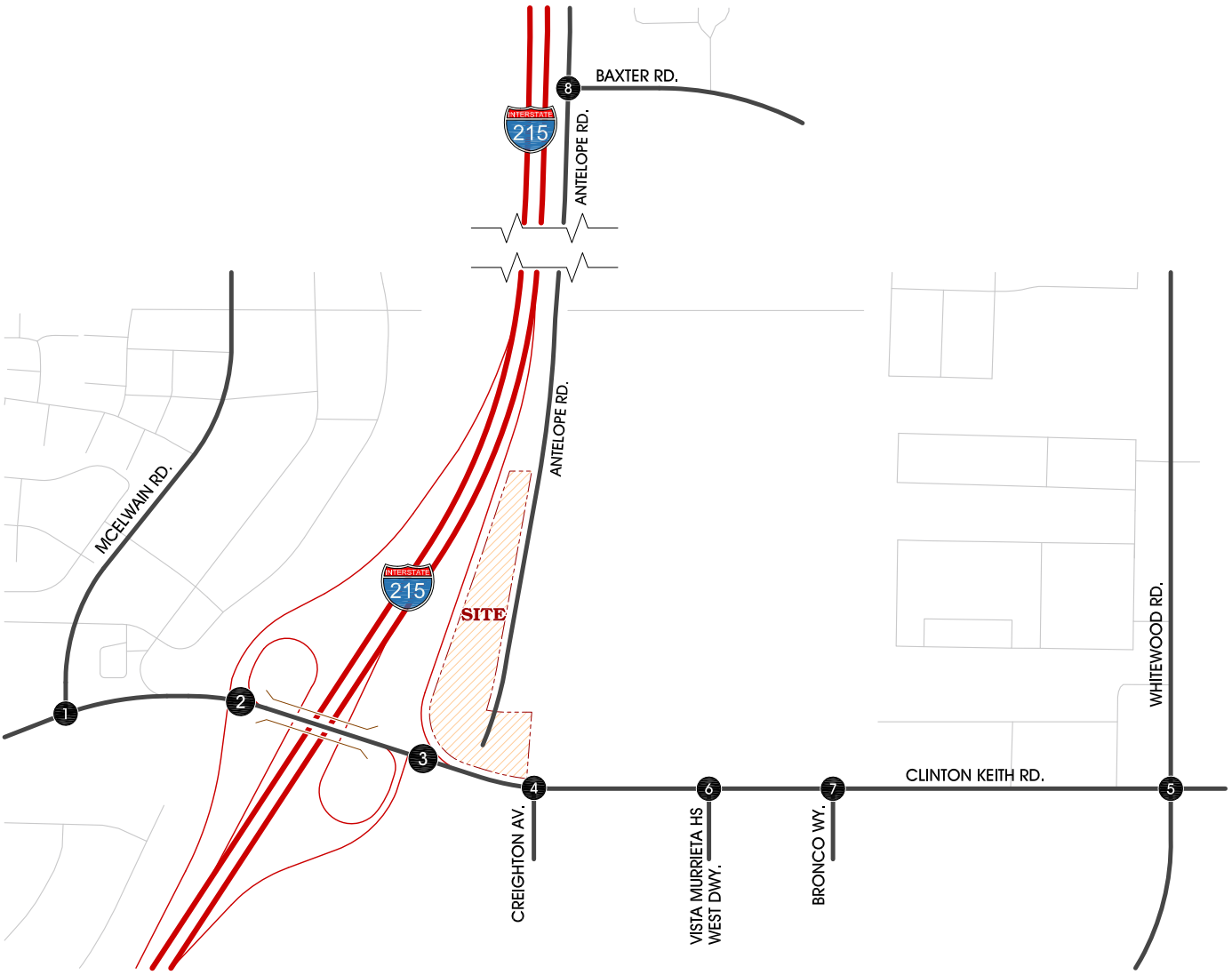
6. Vista Murrieta W. Dwy. / Clinton Keith Rd.		7. Bronco Wy. / Clinton Keith Rd.		8. Antelope Rd. / Baxter Rd.	
← 849		← 494 ↱ 222 ↱ 0		152 ↓ 162 ↓	↳ 75 ← 34
820 → 240 ↳	14 ↱	0 ↻ 616 → 188 ↳	313 ↱ 87 ↱		91 ↑ 71 ↑

LEGEND:

7 = INTERSECTION ID

N

FIGURE 3-D
EXISTING PM PEAK HOUR INTERSECTION VOLUMES



1. McElwain Rd. / Clinton Keith Rd.		2. I-215 SB Ramps / Clinton Keith Rd.		3. I-215 NB Ramps / Clinton Keith Rd.		4. Creighton Av. / Clinton Keith Rd.		5. Whitewood Rd. / Clinton Keith Rd.	
317 ↓ 17 ↑ 326	↳203 ←1156 ↰22	775 ↓ 3 ↑ 120	↳217 ←754		↳55 ←512	←491 ↰27 ↑2		268 ↓ 195 ↑ 0	↳0 ←0 ↰0
348 → 1391 → 27 ↰	15 ↑ 10 ↱ 36	1330 → 428 ↰		718 → 732 ↰	406 ↑ 365 ↱	8 ↰ 984 → 105 ↰	62 ↑ 24 ↱	536 → 0 → 377 ↰	277 ↑ 386 ↑ 0 ↱

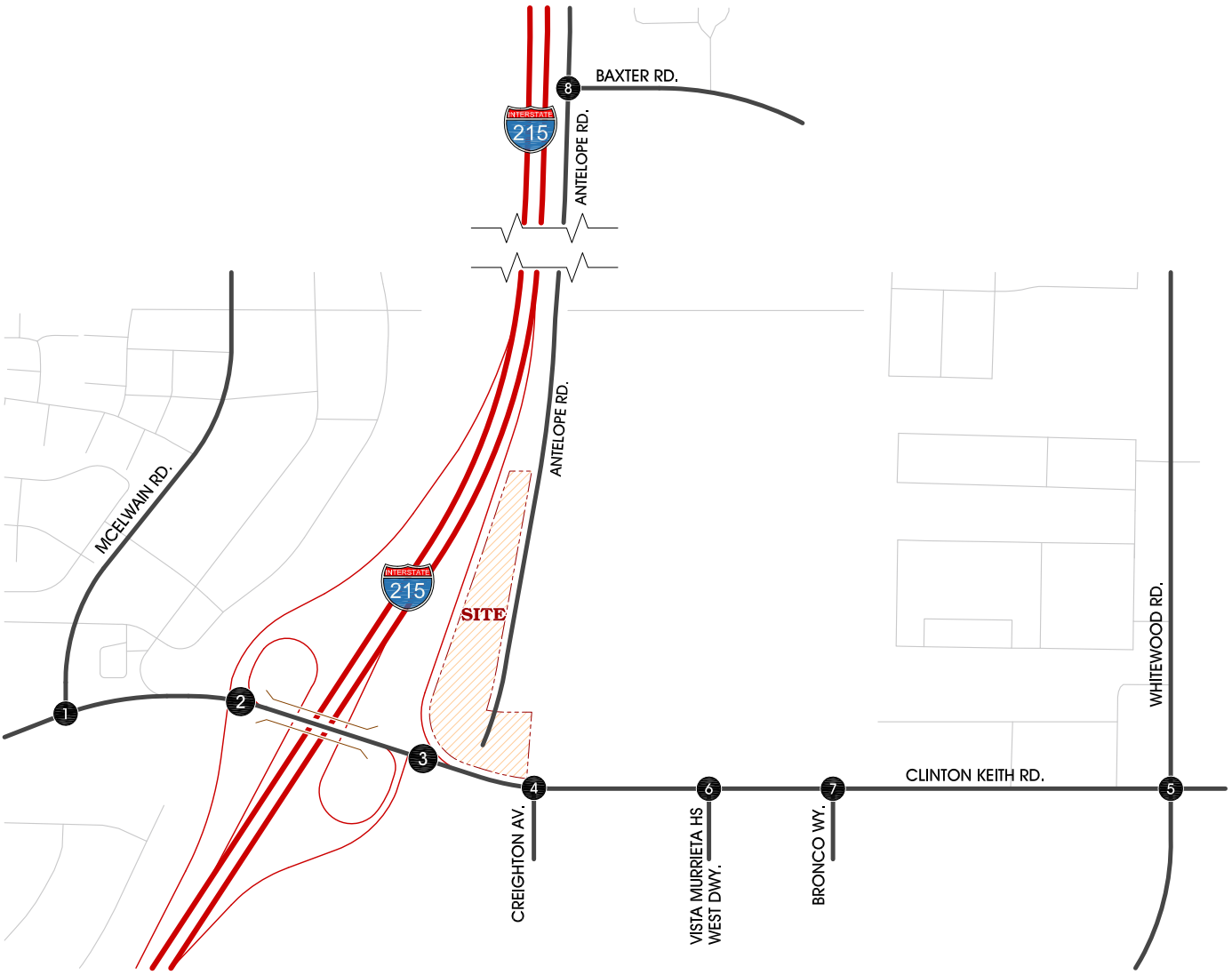
6. Vista Murrieta W. Dwy. / Clinton Keith Rd.		7. Bronco Wy. / Clinton Keith Rd.		8. Antelope Rd. / Baxter Rd.	
←524		←399 ↰113 ↑36		102 ↓ 50 ↑	↳144 ←39
967 → 47 ↰	20 ↱	15 ↰ 851 → 119 ↰	121 ↑ 71 ↱		147 ↑ 14 ↱

LEGEND:

7 = INTERSECTION ID

N

FIGURE 3-E
EXISTING SATURDAY MD PEAK HOUR INTERSECTION VOLUMES



1. McElwain Rd. / Clinton Keith Rd.		2. I-215 SB Ramps / Clinton Keith Rd.		3. I-215 NB Ramps / Clinton Keith Rd.		4. Creighton Av. / Clinton Keith Rd.		5. Whitewood Rd. / Clinton Keith Rd.	
253 12 409	23 894 25	524 0 150	260 761		110 669	745 7 0		213 213 53	29 325 109
276 1034 13	10 6 22	1016 424		650 512	367 310	8 896 51	50 11	292 420 165	111 141 88

6. Vista Murrieta W. Dwy. / Clinton Keith Rd.		7. Bronco Wy. / Clinton Keith Rd.		8. Antelope Rd. / Baxter Rd.
725		667 18 17		NOT ANALYZED (SATURDAY CONDITIONS)
907 0	0	1 864 22	58 9	

LEGEND:

7 = INTERSECTION ID

N

TABLE 3-1.1

INTERSECTION ANALYSIS FOR EXISTING CONDITIONS

ID	Intersection	Traffic Control [1]	Intersection Approach Lanes [2]												Delay [3] (secs.)			Level of Service [3]		
			Northbound			Southbound			Eastbound			Westbound			Weekday		Sat	Weekday		Sat
			L	T	R	L	T	R	L	T	R	L	T	R	AM	PM	MD	AM	PM	MD
1	McElwain Rd. / Clinton Keith Rd.	TS	1	1	0	2	1	0	2	3	1	1	3	1>	26.7	32.8	25.6	C	C	C
2	I-215 SB Ramps / Clinton Keith Rd.	TS	0	0	0	0	1	2	0	3	1	0	3	1>>	18.7	26.5	13.3	B	C	B
3	I-215 NB Ramps / Clinton Keith Rd.	TS	1	0	1	0	0	0	0	3	1>>	0	3	1>>	32.7	16.6	16.2	C	B	B
4	Creighton Ave. / Clinton Keith Rd.	TS	1	0	1	0	0	0	1U	3	1	1	3	0	11.1	7.3	5.4	B	A	A
5	Whitewood Rd. / Clinton Keith Rd.	TS	1	1	0	1	2	0	2	1	1	1	1	0	31.5	33.1	28.5	C	C	C
6	Vista Murrieta HS W. Dwy. / Clinton Keith Rd.	CSS	0	0	1	0	0	0	0	3	0	0	3	0	18.5	14.8	0.0	C	B	A
7	Bronco Wy. / Clinton Keith Rd.	TS	2	0	1	0	0	0	1U	3	d	1	3	0	22.4	17.2	5.8	C	B	A
8	Antelope Rd. / Baxter Rd.	TS	0	1	1	1	1	0	0	0	0	1	0	1	26.0	26.8	-	C	C	-

[1] TS = Traffic Signal; CSS = Cross Street Stop

[2] When a right turn is designated, the lane can either be striped or unstriped. To function as a right turn lane there must be sufficient width for right turning vehicles to travel outside the through lanes.

L = Left; T = Through; R = Right; 1! = Shared Left-Through-Right Lane; 0.5 = Shared Lane ; d = Defacto right turn lane; > = Right Turn Overlap; >> = Free Right Turn Lane

[3] Delay and level of service calculated using the following analysis software: Synchro Software

TABLE 3-1.2
QUEUEING ANALYSIS SUMMARY FOR
EXISTING CONDITIONS

ID	Intersection	Turning Movement Lane	Storage Length Provided[2] (feet)	95th Percentile Queue Length Per Lane (feet)[1]		
				Weekday		Saturday
				AM	PM	MD
1	McElwain / Clinton Keith Rd.					
		EBL	200	134	218 [3]	146
		EBR	100	0	0	0
		WBL	200	12	49	47
		WBR	160	25	55	37
		NBL	50	17	40	27
		SBL	250	162	205	209
2	I-215 SB Ramps / Clinton Keith Rd.					
		EBR	400	34	35	34
		WBR	150	1	0	0
		SBR	>1000	136	223	93
3	I-215 NB Ramps / Clinton Keith Rd.					
		NBL	960	138	329	269
		NBR	960	346	215	119
4	Creighton Ave. / Clinton Keith Rd.					
		EBU	240	16	21	21
		EBR	200	10	18	11
		WBL	230	47	51	19
		WBR	150	0	0	0
		NBL	200	129	86	70
5	Whitewood Rd. / Clinton Keith Rd.					
		EBL	250	133	258 [3]	187
		NBL	310	249	325 [3]	170
		SBL	100	12	12	97
7	Bronco Wy. / Clinton Keith Rd.					
		EBU	200	199	35	6
		WBL	315	260	183	55
		NBL	355	157	57	24
		NBR	355	11	31	10
8	Antelope Rd. / Baxter Rd.					
		WBL	520	55	59	-
		WBR	520	40	42	-
		NBR	50	19	8	-
		SBL	150	174 [3]	71	-

[1] Queue length calculated using Synchro 8

[2] Existing pocket length storage (for turning movements) or link distance (for through movements).

[3] 95th percentile queue is anticipated to exceed available storage length. However, the excess queue length can be accommodated within the transition lane.

TABLE 3-2

ROADWAY SEGMENT ANALYSIS FOR EXISTING CONDITIONS

Roadway	Segment Limits	General Plan Roadway Classification	Through Travel Lanes[1]	Roadway Capacity and LOS Criteria[2] (Maximum 2-Way ADT)		Existing Conditions[4]					
						Weekday			Saturday		
				LOS C	LOS E	ADT	V/C[3]	LOS	ADT	V/C[3]	LOS
Clinton Keith Rd.	west of Creighton Av.	Urban Arterial	6	43,100	53,900	25,264	0.47	A	20,276	0.38	A
	east of Creighton Av.	Urban Arterial	6	43,100	53,900	25,264	0.47	A	20,276	0.38	A

[1] 1 = Existing number of through lanes; 1 = Improvement

[2] Source: City of Murrieta Daily Roadway Capacity Values

[3] V/C = ADT / LOS E Roadway Capacity

[4] Source: For the purpose of this analysis, ADT counts from the Costco Warehouse Murrieta TIA, prepared by Kittelson & Associates (April 2019), have been utilized.

The Existing freeway ramp and basic freeway segment analysis results are summarized in Tables 3-3 and 3-4. As shown on Tables 3-3 and 3-4, the freeway ramps and basic freeway segments analyzed for this study were found to operate at an acceptable LOS (LOS “D” or better) during the peak hours. The existing conditions ramp analysis worksheets are provided in Appendix "D". The basic freeway segment analysis worksheets for existing conditions are included in Appendix “E”.

E. Transit Service

Riverside Transit Agency (RTA) Routes 23 and 61 currently provide service to the roadways within the study area.

F. City of Murrieta Planned Roadway Improvements within the study area

Warm Springs Parkway and Clinton Keith Road

The proposed alignment of the Warm Springs Parkway will be constructed as a four (4) leg intersection at Clinton Keith Road, directly across from the existing High School West (Stadium) Driveway.

TABLE 3-3

FREEWAY RAMP ANALYSIS FOR EXISTING CONDITIONS

Freeway	Ramp Location	Lanes on Freeway[1]	Lanes on Ramp[1]	Ramp Volumes			Density[2]			Level of Service[3]		
				Weekday		Sat	Weekday		Sat	Weekday		Sat
				AM	PM	MD	AM	PM	MD	AM	PM	MD
I-215 Southbound	Clinton Keith Rd. Off-Ramp	3	1	739	898	674	31.6	27.3	29.7	D	C	D
	Clinton Keith Rd. Loop On-Ramp	3	1	313	217	260	25.0	18.8	23.2	C	B	C
	Clinton Keith Rd. Slip On-Ramp	3	1	473	431	424	27.6	21.1	25.4	C	C	C
I-215 Northbound	Clinton Keith Rd. Off-Ramp	3	1	680	771	677	20.9	30.2	27.1	C	D	C
	Clinton Keith Rd. Loop On-Ramp	3	1	753	732	512	17.2	25.5	21.2	B	C	C
	Clinton Keith Rd. Slip On-Ramp	3	1	145	55	110	16.7	24.2	21.1	B	C	C

[1] Existing number of lanes.

[2] Density is measured by passenger cars per lane (pc/mi/ln)

[3] Density and level of service calculated using the following analysis software: HCS2010, Version 6.65

TABLE 3-4

BASIC FREEWAY SEGMENT ANALYSIS FOR EXISTING CONDITIONS

Freeway	Ramp Location	Lanes on Freeway[1]	Freeway Volumes			Density[2]			Level of Service[3]		
			Weekday		Sat	Weekday		Sat	Weekday		Sat
			AM	PM	MD	AM	PM	MD	AM	PM	MD
I-215 Southbound	North of Clinton Keith Rd.	3	4,491	3,693	4,269	25.5	19.5	22.9	C	C	C
	South of Clinton Keith Rd.	3	4,538	3,443	4,279	25.8	18.1	23.0	C	C	C
I-215 Northbound	South of Clinton Keith Rd.	3	2,493	4,245	3,665	13.3	22.9	19.4	B	C	C
	North of Clinton Keith Rd.	3	2,711	4,261	3,610	14.5	23.0	19.1	B	C	C

[1] Density is measured by passenger cars per lane (pc/mi/ln)

[2] Density and level of service calculated using the following analysis software: HCS2010, Version 6.65

4.0 PROJECTED FUTURE TRAFFIC

This section of the report quantifies the number of trips generated by the proposed project and other known developments in the area.

A. Project Traffic

1. Ambient Growth Rate

Some traffic volume increases on roadways can be attributed to vehicles originating outside of the study area. These types of trips either end up within the study area or pass-through onto an outside destination. Therefore, to account for these trips (termed "ambient growth"), a growth rate can be applied to existing traffic volumes.

A 2% ambient growth rate that has been used in this study to account for traffic not attributed to the project or other planned developments within the study area.

2. Project Trip Generation

Trip generation represents the amount of traffic which is attracted and produced by a development. The trip generation for the project is based upon the specific land use which has been planned for this development. For the purpose of this analysis, the following land use assumption is evaluated:

- 4,000 sf Automobile Parts and Service Center
- 5,000 sf Tire Store
- 11,650 sf Shopping Center
- 3,000 sf High Turnover (Sit-Down) Restaurant
- 5,000 sf Fast Food restaurant with Drive Through
- 5,000 sf Drive-in Bank

Trip generation rates for the proposed development are shown in Table 4-1. The trip generation rates are based upon data collected by the Institute of Transportation Engineers (ITE).

The daily and peak hour trip generations for the proposed project are shown on Table 4-2. The proposed development is projected to generate a total of approximately 4,433 trip-ends per day with 311 vehicles per hour during the AM peak hour, 395 vehicles per hour during the PM peak hour, and 692 during the Saturday peak hour.

TABLE 4-1

PROJECT TRIP GENERATION RATES[1]

Land Use	ITE Code	Quantity[2]	WEEKDAY							SATURDAY		
			AM Peak Hour			PM Peak Hour				MD Peak Hour		
			In	Out	Total	In	Out	Total	Daily	In	Out	Total
Automobile Parts and Service Center	943[3]	4 TSF	1.43	0.53	1.96	0.90	1.36	2.26	16.28	3.05	3.57	6.62
Tire Store	848	5 TSF	1.82	1.07	2.89	1.78	2.37	4.15	24.87	2.37	2.68	5.05
Shopping Center	820	11.65 TSF	2.24	1.37	3.61	5.85	6.33	12.18	144.12	5.06	4.67	9.73
High Turnover (Sit-Down) Restaurant	932	3 TSF	5.95	4.86	10.81	5.91	3.94	9.85	127.15	5.71	5.48	11.19
Fast Food w/ Drive Thru	934	5 TSF	15.06	10.04	25.10	14.17	14.17	28.34	346.23	27.98	26.88	54.86
Drive-in Bank	912	5 TSF	6.89	5.19	12.08	12.15	12.15	24.30	148.15	43.24	43.24	86.48

[1] Source: ITE (Institute of Transportation Engineers) Trip Generation Manual, 9th Edition, 2012.
Regression equation applied to ITE Code 820 (Shopping Center)

[2] TSF = Thousand Square Feet

[3] Source: ITE (Institute of Transportation Engineers) Trip Generation Manual, 10th Edition, 2017.

TABLE 4-2

PROJECT TRIP GENERATION SUMMARY

Land Use	Quantity[1]	WEEKDAY							SATURDAY		
		AM Peak Hour			PM Peak Hour				MD Peak Hour		
		In	Out	Total	In	Out	Total	Daily	In	Out	Total
Automobile Parts and Service Center	4 TSF	6	2	8	4	5	9	65	12	14	26
Tire Store	5 TSF	9	5	14	9	12	21	124	12	13	25
Shopping Center	11.65 TSF	26	16	42	68	74	142	1,679	59	54	113
High Turnover (Sit-Down) Restaurant	3 TSF	18	15	33	18	12	30	381	17	16	33
Fast Food w/ Drive Thru	5 TSF	116	111	227	85	78	163	2,481	140	134	274
- Pass-By Reduction (25%)		-29	-28	-57	-21	-20	-41	-620	-34	-34	-68
Drive-in Bank	5 TSF	34	26	60	61	61	122	741	216	216	432
- Pass-By Reduction (25%)					-16	-15	-31	-185	-54	-54	-108
- Internal Capture (5% Reduction)		-9	-7	-16	-10	-10	-20	-233	-18	-17	-35
TOTAL		171	140	311	198	197	395	4,433	350	342	692

[1] TSF = Thousand Square Feet

3. Project Trip Distribution and Assignment

Trip distribution represents the directional orientation of traffic to and from the project site. The project's trip distribution patterns are based on the proximity of the specific uses to the surrounding trip attractors (employment bases, schools, recreation centers, etc.), and the regional freeway interchanges. The trip distribution pattern for the project is illustrated on Figure 4-A.

4. Other Trip Generation Factors

The project land uses are comprised mainly of primary traffic. Primary traffic refers to trips that are intending to go to the project as their primary destination. Therefore, no reduction has been assumed for pass-by traffic.

5. Project Peak Hour Turning Movement Traffic

The assignment of traffic from the site to the adjoining roadway system has been based upon the site's trip generation, trip distribution, proposed arterial highway and local street systems, which would be in place by the time of initial occupancy of the site. Based on the identified project traffic generation and distribution, Project AM, PM, and Saturday peak hour intersection traffic volumes are shown on Figures 4-B through 4-D.

B. Cumulative Traffic (Background)

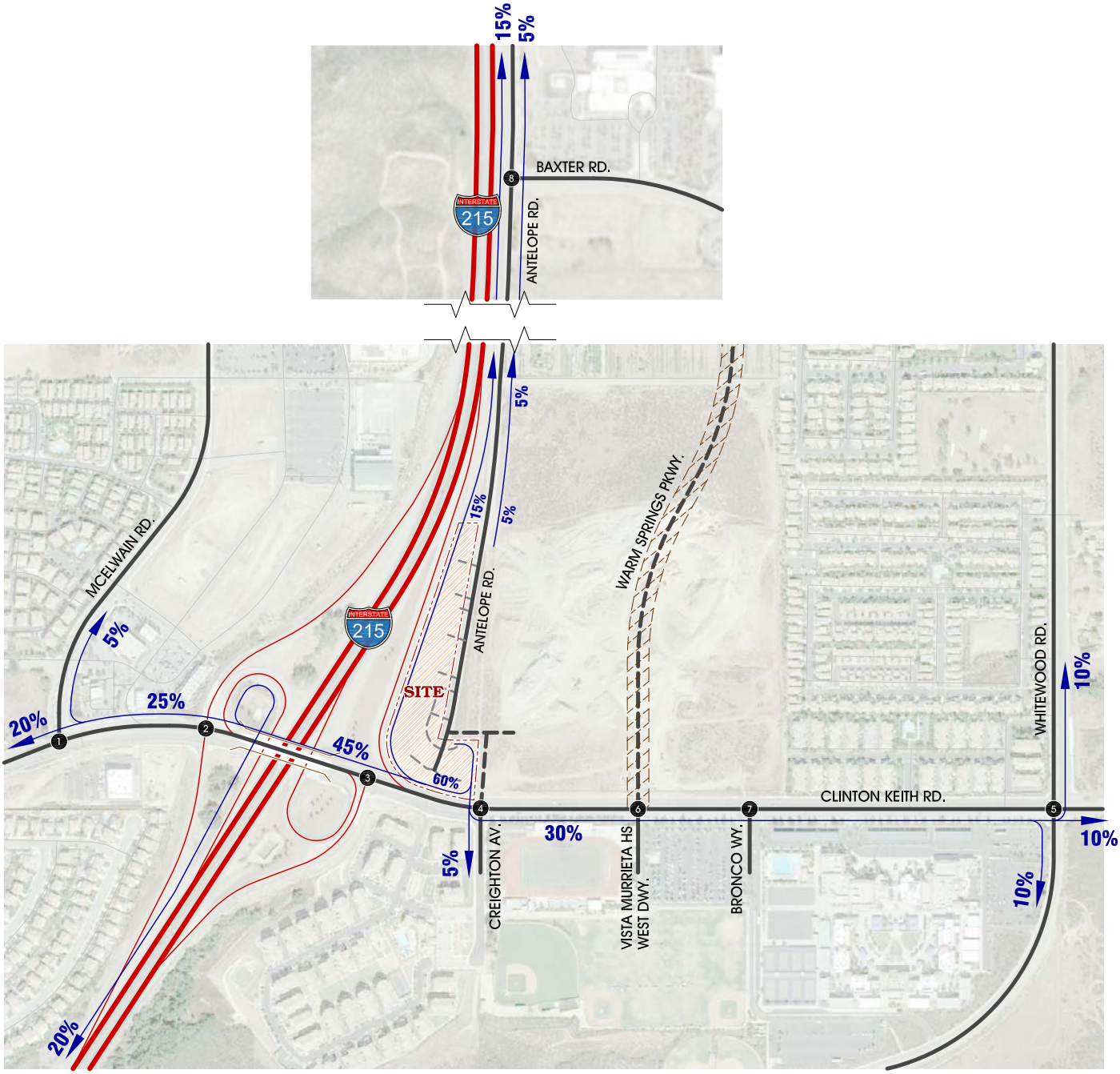
1. Method of Projection

To assess Existing Plus Ambient Plus Project Plus Cumulative traffic conditions, project traffic is combined with existing traffic, area-wide growth and other future developments which are approved or being processed concurrently in the study area. Developments which are being processed concurrently in the study area have been provided by City staff.

2. Other Approved or Proposed Development Projects

The cumulative developments have been included along with the land use associated with each project. The location of the cumulative projects provided by the City are shown on Figure 4-E.

FIGURE 4-A
PROJECT TRIP DISTRIBUTION



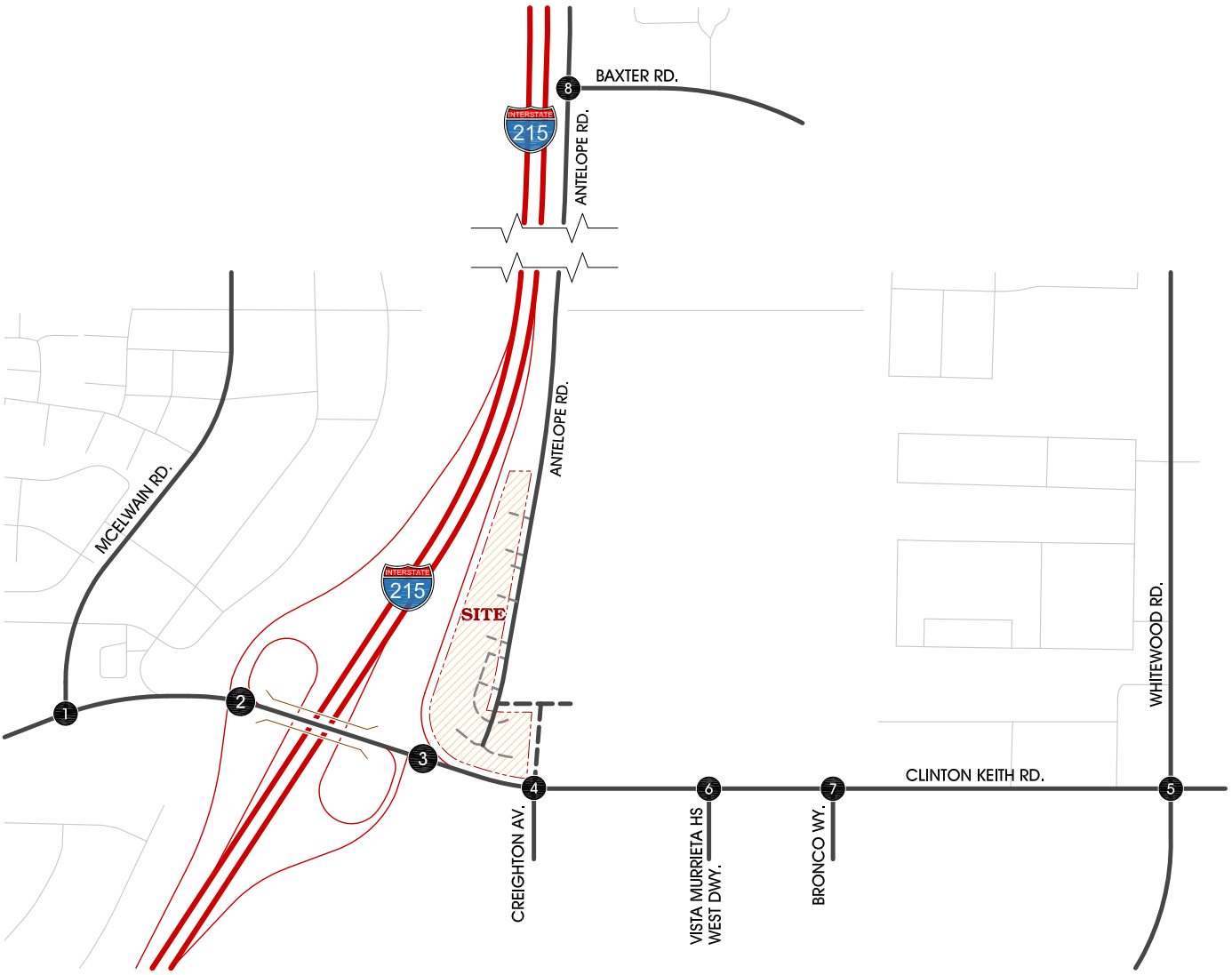
LEGEND:

8 = INTERSECTION ID

10% = PERCENT TO/FROM PROJECT

N

FIGURE 4-B
PROJECT ONLY AM PEAK HOUR INTERSECTION VOLUMES



1. McElwain Rd. / Clinton Keith Rd.		2. I-215 SB Ramps / Clinton Keith Rd.		3. I-215 NB Ramps / Clinton Keith Rd.		4. Creighton Av. / Clinton Keith Rd.	
0 0 9	7 28 0	0 0 26	28 35		21 63	84 7 42	51 0 0 0
0 34 0	0 0 0	43 0		68 0	0 34	0 103 0 0	0 6 0
5. Whitewood Rd. / Clinton Keith Rd.		**6. Vista Murrieta W. Dwy. / Clinton Keith Rd.**		**7. Bronco Wy. / Clinton Keith Rd.**		**8. Antelope Rd. / Baxter Rd.**	
17 0 0	0 17 0		51		51 0 0	9 0	0 0
14 14 14	17 0 0	42 0	0	0 42 0	0 0		7 0

PASS-BY TRIPS

4. Creighton Av. / Clinton Keith Rd.	
19 0 10	19 -19 0
10 -10 0	0 0 0

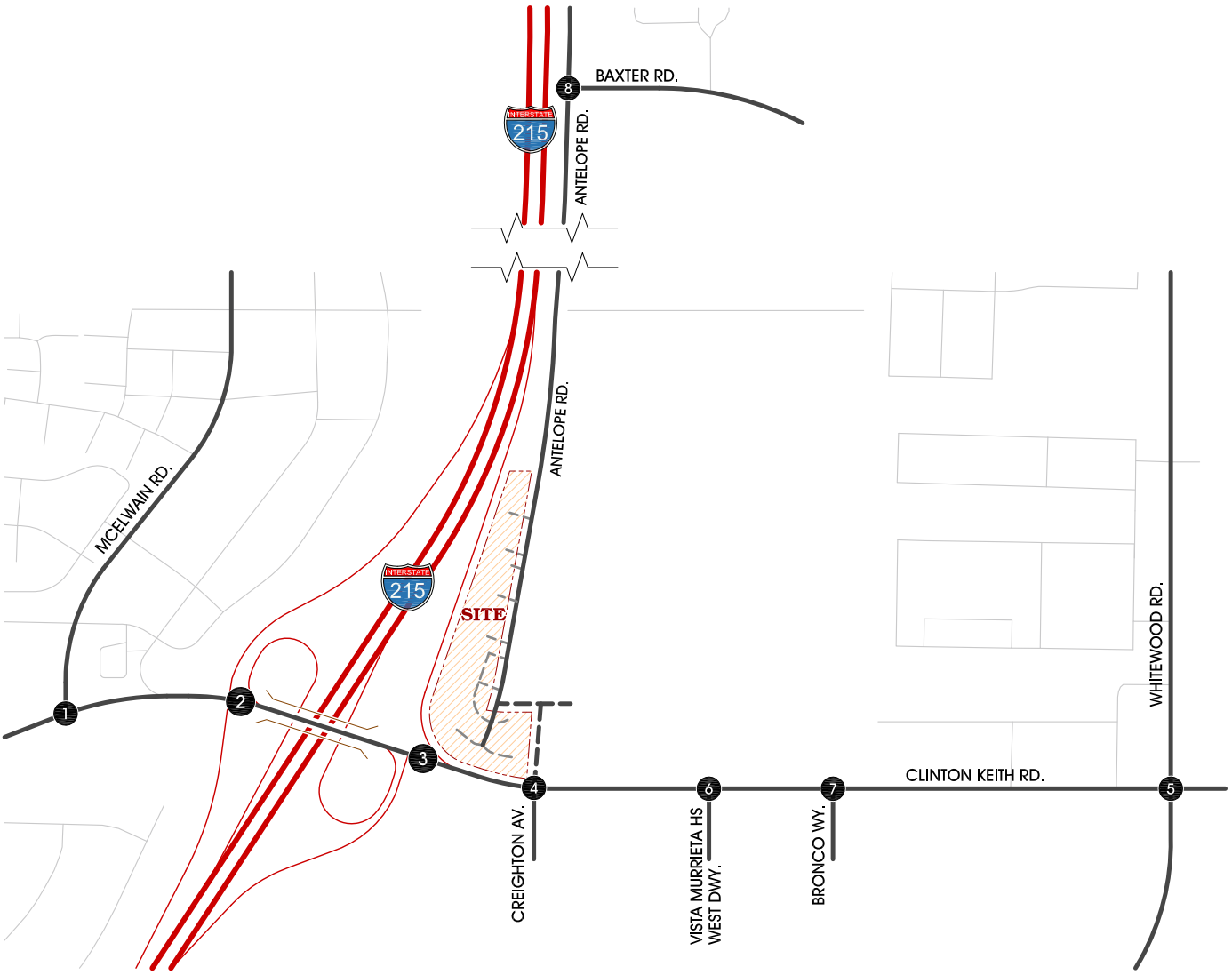
LEGEND:

7 = INTERSECTION ID

= FUTURE ROAD

N

FIGURE 4-C
PROJECT ONLY PM PEAK HOUR INTERSECTION VOLUMES



1. McElwain Rd. / Clinton Keith Rd.	2. I-215 SB Ramps / Clinton Keith Rd.	3. I-215 NB Ramps / Clinton Keith Rd.	4. Creighton Av. / Clinton Keith Rd.
0 0 10 — 10 39 0	0 0 30 — 39 49	30 89	118 10 59 — 59 0 0 0
0 40 0 — 0 0 0	50 0 —	79 0 — 0 40	0 119 0 0 — 0 10 0

5. Whitewood Rd. / Clinton Keith Rd.	6. Vista Murrieta W. Dwy. / Clinton Keith Rd.	7. Bronco Wy. / Clinton Keith Rd.	8. Antelope Rd. / Baxter Rd.
20 0 0 — 0 20 0	59	59 0 0	10 0 — 0 0
20 20 20 — 20 0 0	59 0 — 0	0 59 0 — 0 0	10 0

PASS-BY TRIPS

4. Creighton Av. / Clinton Keith Rd.
24 0 13 — 24 -24 0
13 -13 0 — 0 0 0

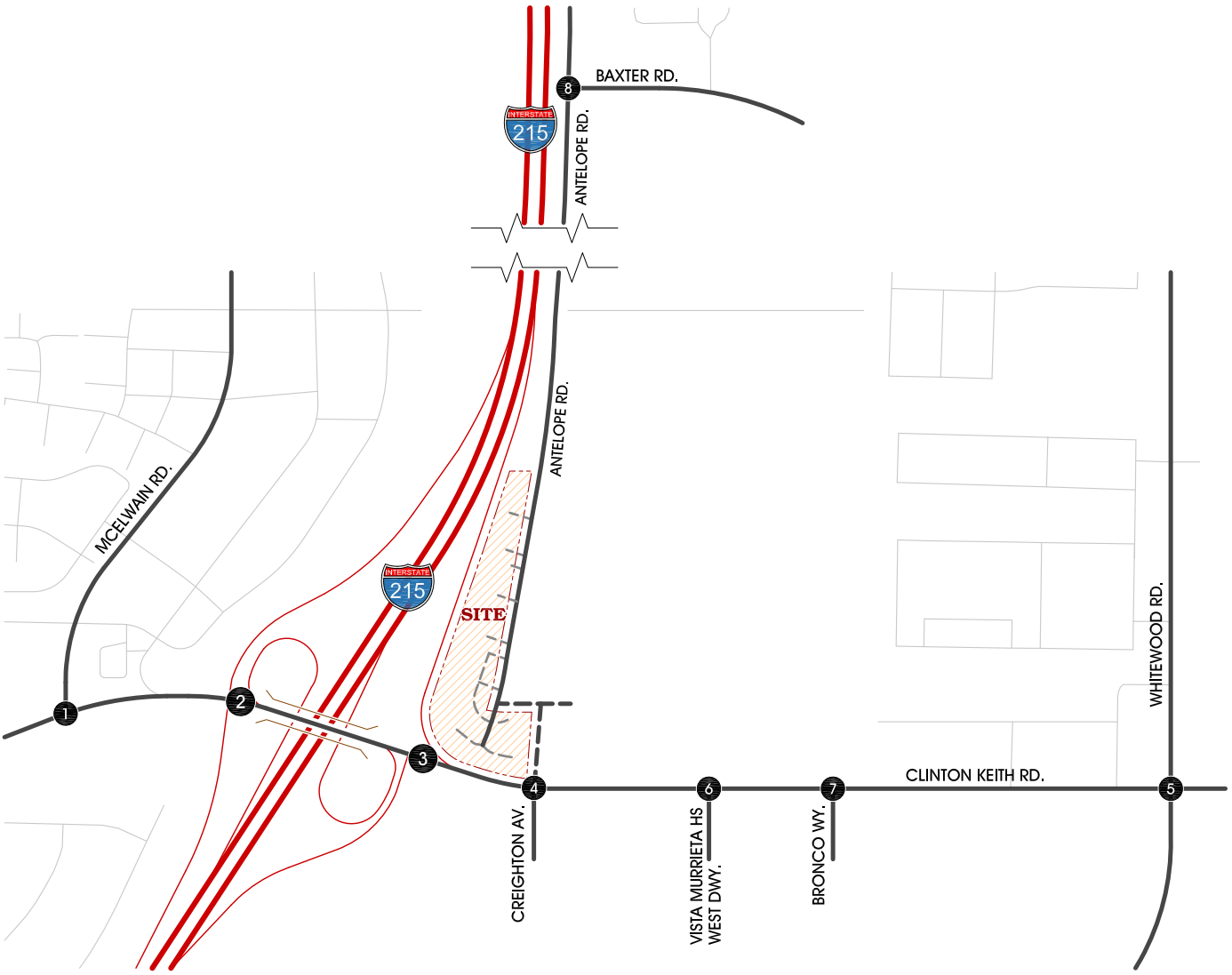
LEGEND:

7 = INTERSECTION ID

= FUTURE ROAD

N

FIGURE 4-D
PROJECT ONLY SATURDAY MD PEAK HOUR INTERSECTION VOLUMES



1. McElwain Rd. / Clinton Keith Rd.	2. I-215 SB Ramps / Clinton Keith Rd.	3. I-215 NB Ramps / Clinton Keith Rd.	4. Creighton Av. / Clinton Keith Rd.
0 0 18 — 17 68 0	0 0 53 — 68 86	— 51 154	205 17 103 — 105 0 0 0
0 70 0 — 0 0 0	88 0 —	140 0 — 0 70	0 210 0 0 — 0 18 0

5. Whitewood Rd. / Clinton Keith Rd.	6. Vista Murrieta W. Dwy. / Clinton Keith Rd.	7. Bronco Wy. / Clinton Keith Rd.	8. Antelope Rd. / Baxter Rd.
35 0 0 — 0 35 0	105	105 0 0	NOT ANALYZED (SATURDAY CONDITIONS)
34 34 34 — 35 0 0	103 0 — 0	0 103 0 — 0 0	

PASS-BY TRIPS

4. Creighton Av. / Clinton Keith Rd.
57 0 31 — 57 57 0
31 -31 0 — 0 0 0

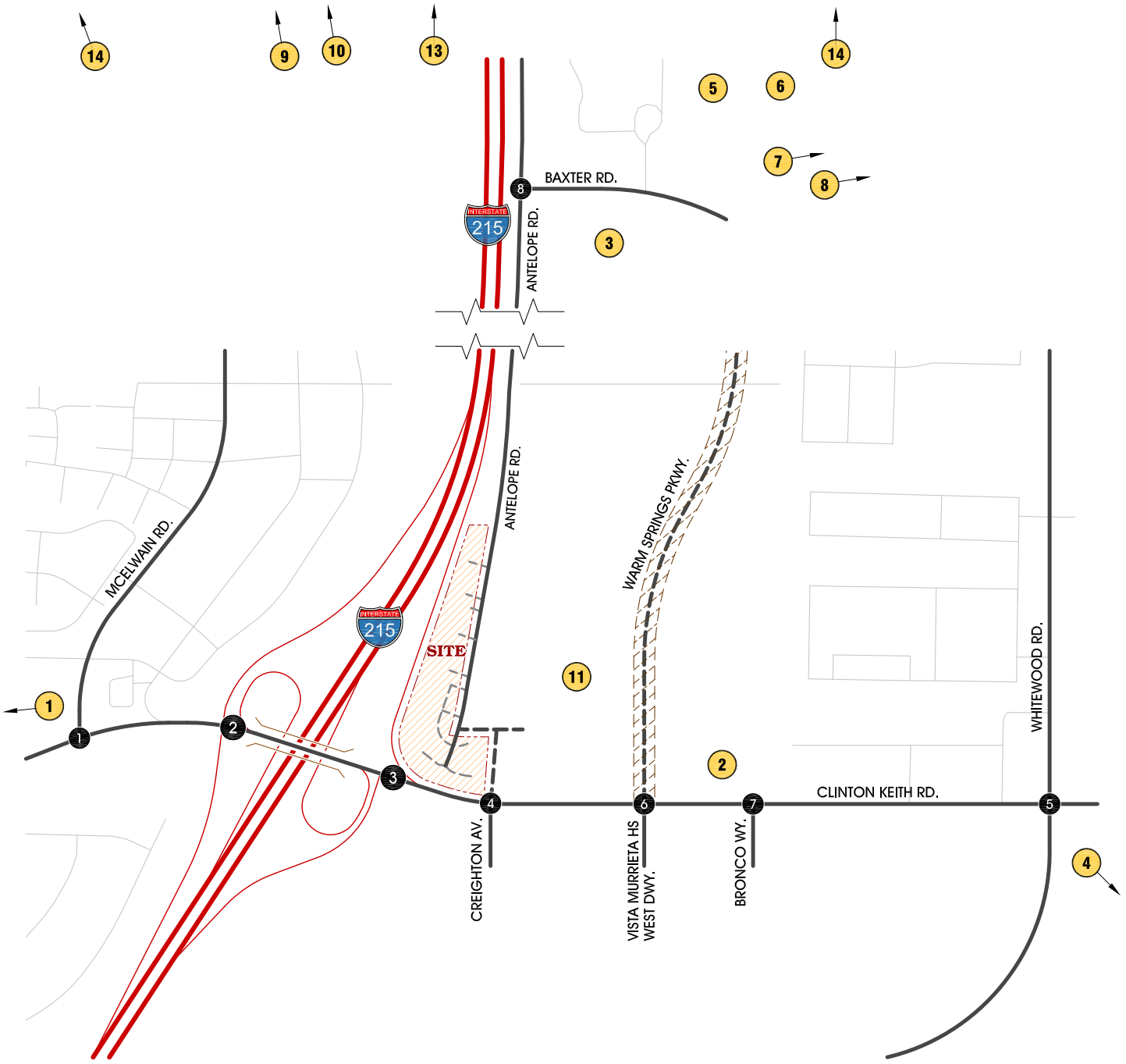
LEGEND:

7 = INTERSECTION ID

= FUTURE ROAD

N

FIGURE 4-E
CUMULATIVE DEVELOPMENTS LOCATION MAP



LEGEND:

- 7 = INTERSECTION ID
- = DIRT ROAD / FUTURE ROADWAY
- = WARM SPRINGS PARKWAY, FUTURE ROADWAY DEFERRED - CITY TO EXTEND
- 10 = CUMULATIVE DEVELOPMENT ID (SEE TABLE 4-3 FOR REFERENCE)

N

3. Other Approved Projects Trip Generation

Table 4-3 presents the cumulative development land uses and trip generation summary. As presented in Table 4-3, the cumulative developments are projected to generate a total of approximately 79,536 trip-ends per day with 4,216 vehicles per hour during the AM peak hour, 7,476 vehicles per hour during the PM peak hour, and 3,743 during the Saturday peak hour. Cumulative development information is provided in Appendix "F".

4. Total Background Peak Hour Turning Movement Volumes

Based on the identified trip distribution for the cumulative development on arterial highways throughout the study area, cumulative development only AM and PM peak hour intersection turning movement volumes are shown on Figures 4-F and 4-G.

Existing plus Ambient plus Project (E+A+P) (2021) AM, PM, and Saturday peak hour intersection turning movement volumes are shown on Figures 4-H through 4-J, respectively.

Existing plus Ambient plus Cumulative (E+A+C) (2021) AM, PM, and Saturday peak hour intersection turning movement volumes are shown on Figures 4-K through 4-M, respectively.

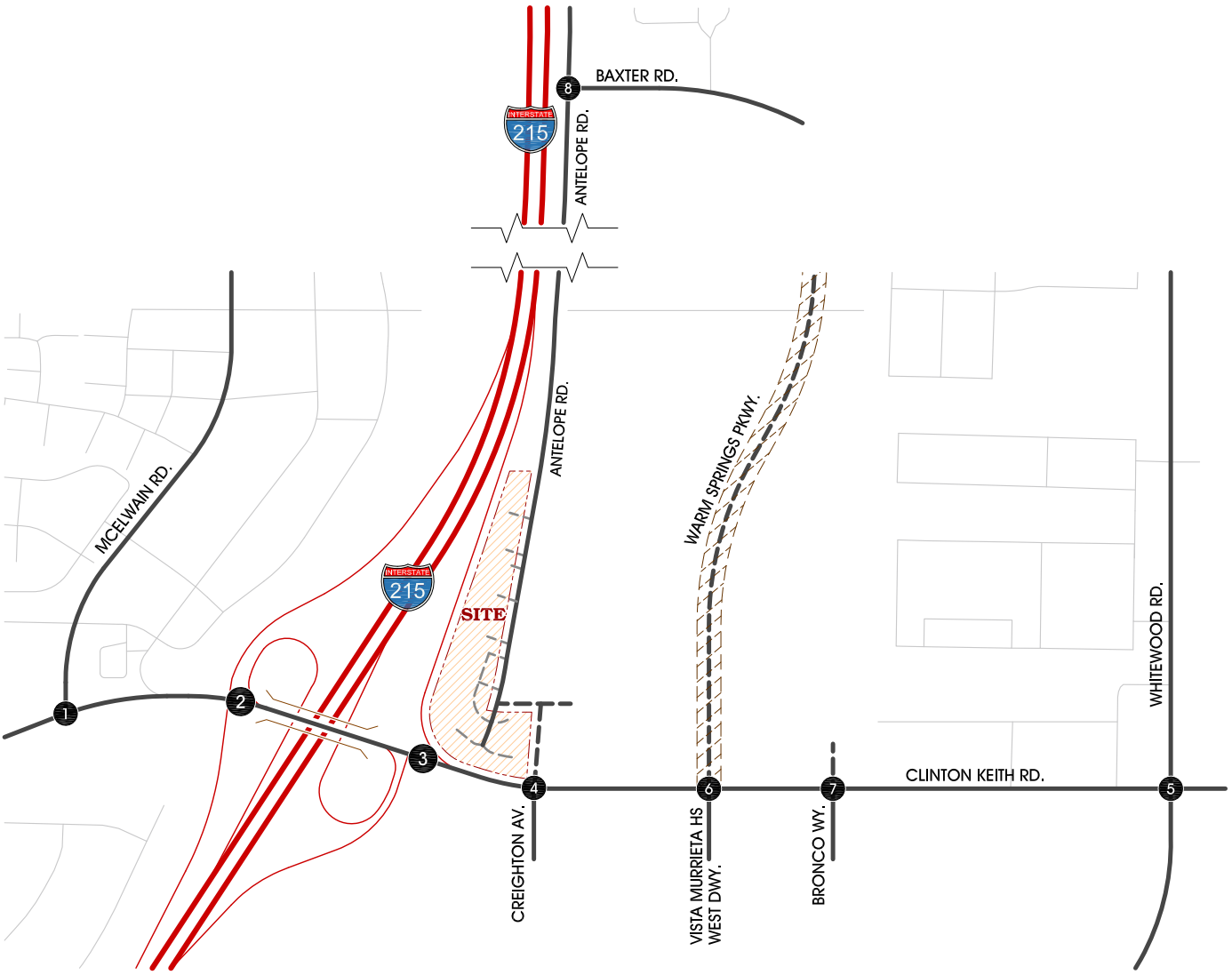
Existing Plus Ambient Plus Project Plus Cumulative (E+A+P+C) (2021) AM, PM, and Saturday peak hour intersection turning movement volumes are shown on Figures 4-N through 4-P, respectively.

TABLE 4-3
CUMULATIVE DEVELOPMENTS TRIP GENERATION SUMMARY

TAZ ID	PROJECT NAME	LAND USE	QUANTITY [1]	PEAK HOUR AM IN	PEAK HOUR AM OUT	PEAK HOUR AM TOTAL	PEAK HOUR PM IN	PEAK HOUR PM OUT	PEAK HOUR PM TOTAL	DAILY
1	Mitchell Crossing	Multi-Family	331 DU	33	136	169	132	73	205	2,201
		Specialty Retail	30 TSF	40	27	67	60	76	136	2,216
	TAZ 1 Subtotal			73	163	236	192	149	341	4,417
2	Vineyard Shopping Ctr.	Mixed-Use	-	139	87	226	334	356	690	8,092
		Pass-By (25%)	-	*-28*	*-17*	*-45*	*-76*	*-83*	*-159*	*-1,838*
	TAZ 2 Subtotal			111	70	181	258	273	531	6,254
3	Makena Hills	Medical-Dental Office	116.2 TSF	220	58	278	116	299	415	4,198
		Quality Restaurant	9.3 TSF	-	-	-	47	23	70	837
		Hotel	206 RM	64	45	109	63	60	123	1,683
	TAZ 3 Subtotal			284	103	387	226	382	608	6,718
4	Adobe Spings	Single Fam. Detached	287 DU	55	161	216	181	106	287	2,732
		Business Park	208.5 TSF	248	44	292	69	194	263	2,594
		Internal (5%)	-	*0*	*0*	*0*	*-6*	*-7*	*-13*	*-130*
	TAZ 4 Subtotal			303	205	508	244	293	537	5,196
5	Alderwood	Single Fam. Detached	10 DU	2	6	8	6	4	10	95
6	Golden Cities Phase 3	Single Fam. Detached	69 DU	13	39	52	44	26	70	657
7	Golden Cities Phase 4	Single Fam. Detached	126 DU	24	71	95	80	47	127	1,200
8	Golden Cities Phase 5	Single Fam. Detached	119 DU	23	67	90	75	44	119	1,133
9	Junction	Discount Club	148.663 TSF	59	24	83	315	315	630	6,214
		Home Improvement Superstore	140.76 TSF	91	77	168	162	183	345	4,195
		Retail	237.377 TSF	161	103	264	532	577	1,109	11,912
		Pass-By (25%)	-	*-78*	*-51*	*-129*	*-252*	*-269*	*-521*	*-5,580*
	TAZ 9 Subtotal			233	153	386	757	806	1,563	16,741
10	Walmart			473	405	878	677	658	1,335	15,702
11	Costco & Shopping Center	Costco w/ Fuel Center	152.65 TSF	-	-	-	535	567	1,102	12,502
		Costco Fuel Center (AM)	32 VFP	224	224	448	-	-	-	-
		Pass-By (AM 32.5%; PM33.3%)		*-73*	*-73*	*-146*	*-183*	*-183*	*-366*	*-4,164*
		Costco Subtotal		151	151	302	352	384	736	8,338
		Shopping Center	79.9 TSF	84	52	136	247	268	515	5,870
		Pass-By (25%)		*-17*	*-17*	*-34*	*-64*	*-64*	*-128*	*-1,468*
		Shopping Center Subtotal		67	35	102	183	204	387	4,402
	TAZ 11 Subtotal			218	186	404	535	588	1,123	12,740
City of Murrieta Total Cumulative Projects Trip Generation				**1,757**	**1,468**	**3,225**	**3,094**	**3,270**	**6,364**	**70,853**
City of Menifee Cumulative Projects										
12	TTM 33732	Single Fam. Detached	296 DU	56	166	222	187	110	297	2,818
13	PP 2009-006; PP2016-126	Gen. Lt. Industrial	827.777 TSF	670	91	761	100	704	804	5,770
14	TR 36684	Single Fam. Detached	10 DU	2	6	8	7	4	11	95
City of Murrieta Total Cumulative Projects Trip Generation				**728**	**263**	**991**	**294**	**818**	**1,112**	**8,683**
Total Cumulative Projects Trip Generation				**2,485**	**1,731**	**4,216**	**3,388**	**4,088**	**7,476**	**79,536**

[1] TSF = Thousand Square Feet; DU = Dwelling Units; RM = Room; VFP = Vehicle Fueling Position

FIGURE 4-F
CUMULATIVE DEVELOPMENTS ONLY AM PEAK HOUR INTERSECTION VOLUMES



1. McElwain Rd. / Clinton Keith Rd.		2. I-215 SB Ramps / Clinton Keith Rd.		3. I-215 NB Ramps / Clinton Keith Rd.		4. Creighton Av. / Clinton Keith Rd.		5. Whitewood Rd. / Clinton Keith Rd.	
27 ↓ 0 ↑ 59	← 55 ← 159 ← 0	41 ↓ 0 ↑ 124	← 92 ← 173		← 110 ← 201	65 ↓ 0 ↑ 0	← 6 ← 245 ← 0 ← 0	37 ↓ 12 ↑ 10	← 10 ← 115 ← 0
38 → 271 → 0 →	← 0 ← 0 ← 0	245 → 86 →		263 → 105 →	← 64 ← 96	0 → 32 → 328 → 0 →	← 0 ← 0 ← 0	58 → 111 → 26 →	← 33 ← 34 ← 0

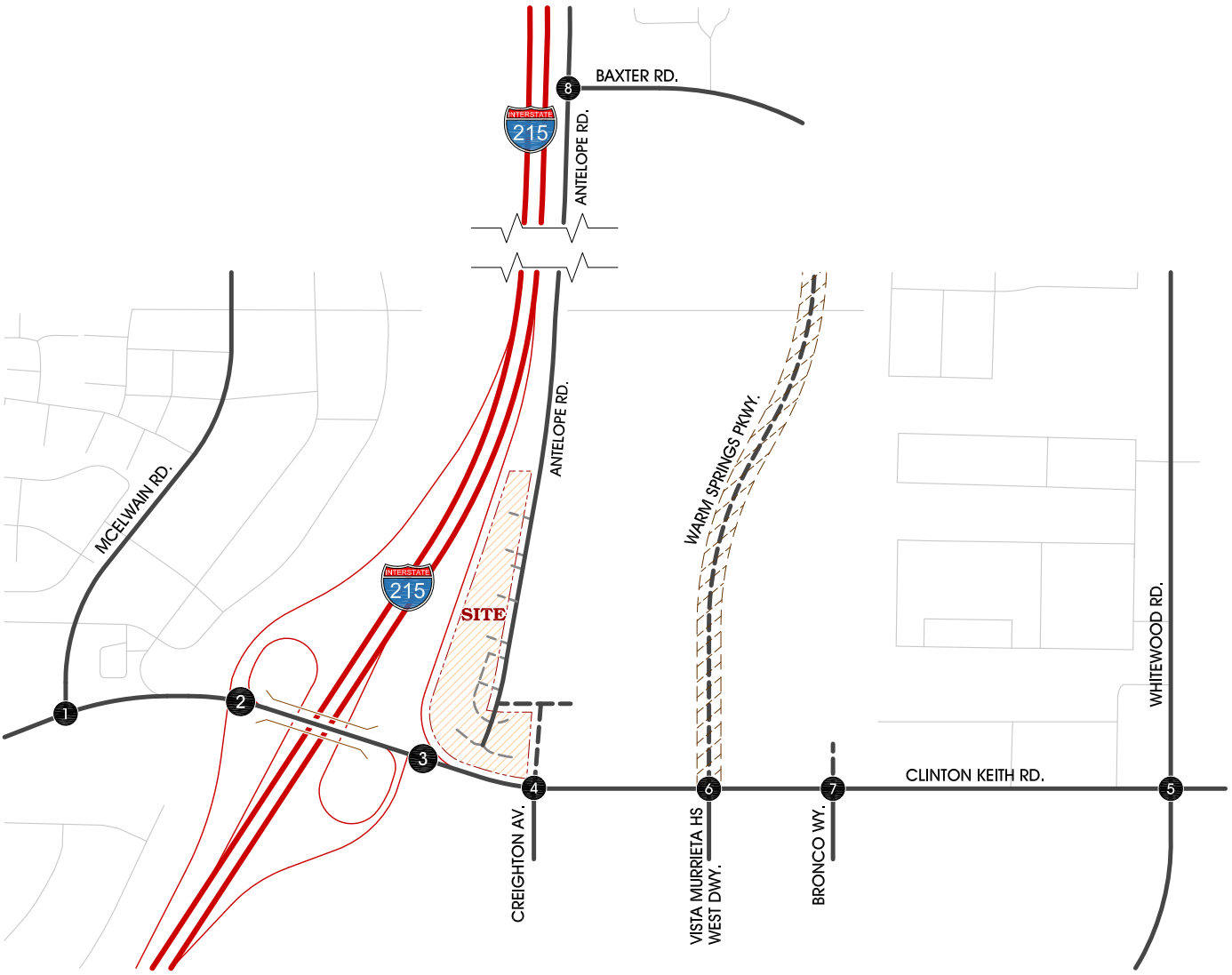
6. Vista Murrieta W. Dwy. / Clinton Keith Rd.		7. Bronco Wy. / Clinton Keith Rd.		8. Antelope Rd. / Baxter Rd.	
175 ↓ 0 ↑ 109	← 89 ← 76 ← 0	10 ↓ 0 ↑ 19	← 31 ← 154 ← 0 ← 0	74 ↓ 34 ↑	← 12 ← 89
246 → 82 → 0 →	← 0 ← 0 ← 0	0 → 15 → 176 → 0 →	← 0 ← 0 ← 0		← 27 ← 30

LEGEND:

- 7 = INTERSECTION ID
- = FUTURE ROAD
- = WARM SPRINGS PARKWAY, FUTURE ROADWAY DEFERRED - CITY TO EXTEND

N

FIGURE 4-G
CUMULATIVE DEVELOPMENTS ONLY PM PEAK HOUR INTERSECTION VOLUMES



1. McElwain Rd. / Clinton Keith Rd.		2. I-215 SB Ramps / Clinton Keith Rd.		3. I-215 NB Ramps / Clinton Keith Rd.		4. Creighton Av. / Clinton Keith Rd.		5. Whitewood Rd. / Clinton Keith Rd.	
87 ↓ 0 ↑ 179	←140 ←653 →2	120 ↓ 0 ↑ 433	→258 ←754		←305 ←910	121 ↓ 0 ↑ 60	←44 ←1094 →7 →0	216 ↓ 81 ↑ 2	←21 ←616 →61
58 → 570 → 0 →	0 0 0	627 → 119 →		1001 → 59 →	102 262	0 → 159 → 1104 → 0 →	0 0 0	128 → 664 → 197 →	52 27 10

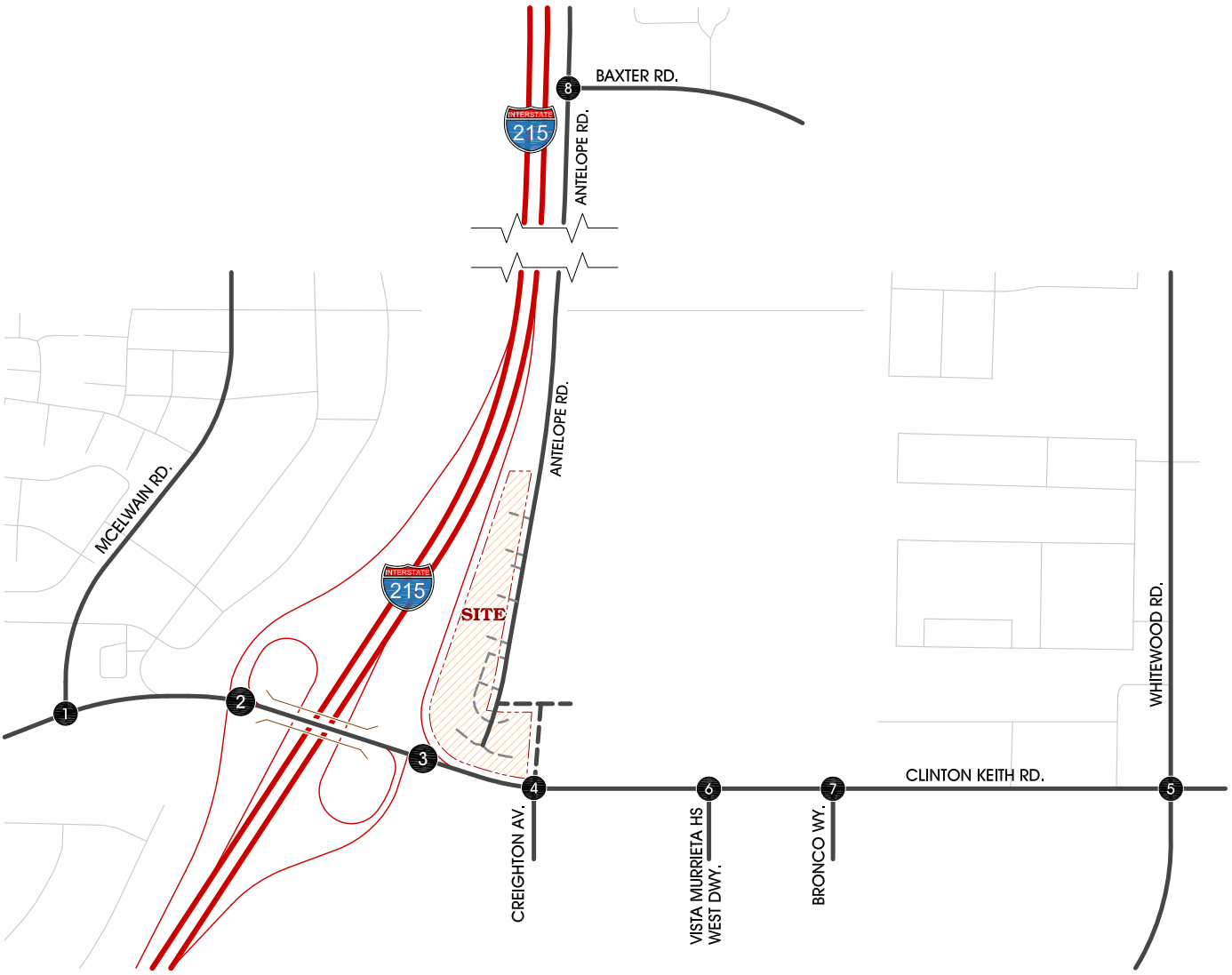
6. Vista Murrieta W. Dwy. / Clinton Keith Rd.		7. Bronco Wy. / Clinton Keith Rd.		8. Antelope Rd. / Baxter Rd.	
482 ↓ 0 ↑ 346	←226 ←663 →0	81 ↓ 0 ↑ 100	→78 ←805 →5 →0	58 ↓ 27 ↑	←45 ←59
530 → 635 → 0 →	0 0 0	0 → 89 → 892 → 0 →	0 0 0		99 100

LEGEND:

- 7 = INTERSECTION ID
- = FUTURE ROAD
- = WARM SPRINGS PARKWAY, FUTURE ROADWAY DEFERRED - CITY TO EXTEND

N

FIGURE 4-H
EXISTING + AMBIENT + PROJECT (2021) AM PEAK HOUR INTERSECTION VOLUMES



1. McElwain Rd. / Clinton Keith Rd.		2. I-215 SB Ramps / Clinton Keith Rd.		3. I-215 NB Ramps / Clinton Keith Rd.		4. Creighton Av. / Clinton Keith Rd.		5. Whitewood Rd. / Clinton Keith Rd.	
203 → 3 ↓ 339 ←	103 → 1102 ← 3	670 → 1 ↓ 153 ←	366 → 694 ←		178 → 879 ←	103 → 7 ↓ 52 ←	70 → 847 ← 32 ↑ 0	400 → 321 ↓ 111 ←	54 → 65 ← 54
259 → 1480 → 5 ↓	5 ↑ 0 ↑ 5	1370 → 510 ↓		685 → 813 ↓	200 ↑ 569	6 → 113 ↑ 1071 → 76 ↓	132 ↑ 9 ↑ 25	295 → 206 → 124 ↓	227 ↑ 137 ↑ 108

6. Vista Murrieta W. Dwy. / Clinton Keith Rd.		7. Bronco Wy. / Clinton Keith Rd.		8. Antelope Rd. / Baxter Rd.	
	968 ←		585 ← 240 ← 0 ↑	173 ↓ 175 ↓	81 ← 37 ←
928 → 259 ↓	15 ↑	0 ↑ 707 → 203 ↓	338 → 94 ↑		105 ↑ 77 ↑

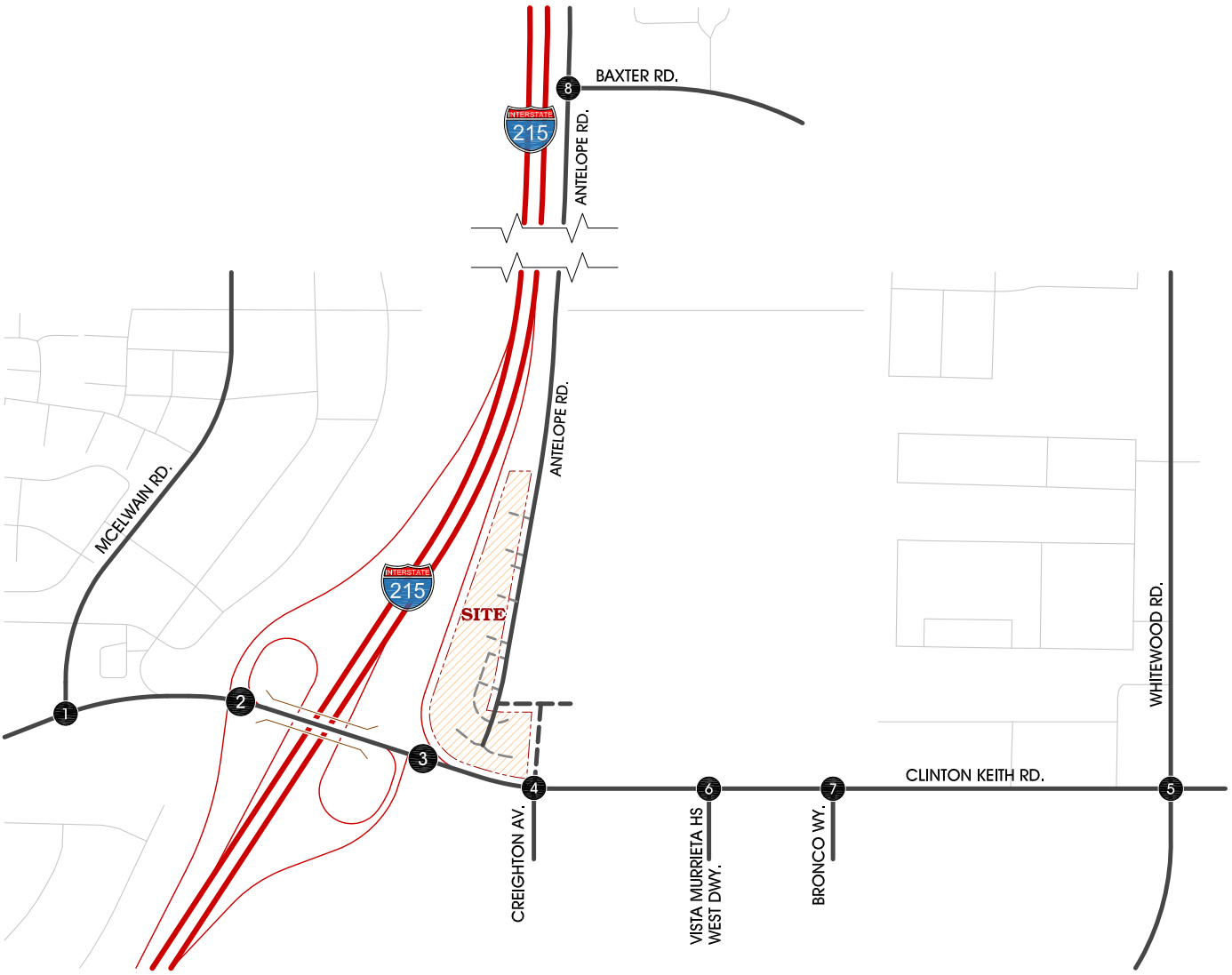
LEGEND:

- 7 = INTERSECTION ID
- = FUTURE ROAD
- = WARM SPRINGS PARKWAY, FUTURE ROADWAY DEFERRED - CITY TO EXTEND

N

FIGURE 4-I

EXISTING + AMBIENT + PROJECT (2021) PM PEAK HOUR INTERSECTION VOLUMES



1. McElwain Rd. / Clinton Keith Rd.		2. I-215 SB Ramps / Clinton Keith Rd.		3. I-215 NB Ramps / Clinton Keith Rd.		4. Creighton Av. / Clinton Keith Rd.		5. Whitewood Rd. / Clinton Keith Rd.	
342 ↓ 18 ↱ 362	↰ 229 ← 1287 ↱ 24	837 ↓ 3 ↱ 160	↰ 273 ← 863		↰ 89 ← 642	142 ↓ 10 ↱ 72	↰ 83 ← 506 ↱ 29 2	309 ↓ 211 ↱ 111	↰ 54 ← 75 ↱ 54
376 → 1542 → 29 ↱	16 ↑ 11 ↱ 39	1486 → 462 ↱		854 → 791 ↱	438 ↑ 434	8 ↰ 133 → 1050 → 113 ↱	67 ↑ 10 ↱ 26	545 → 316 → 185 ↱	264 ↑ 417 ↱ 108

6. Vista Murrieta W. Dwy. / Clinton Keith Rd.		7. Bronco Wy. / Clinton Keith Rd.		8. Antelope Rd. / Baxter Rd.	
← 625		← 490 ↱ 123 ↱ 38		120 ↓ 54	↰ 156 ↱ 42
1103 → 51 ↱	22 ↱	16 ↰ 978 → 129 ↱	131 ↑ 77 ↱		169 ↑ 15 ↱

LEGEND:

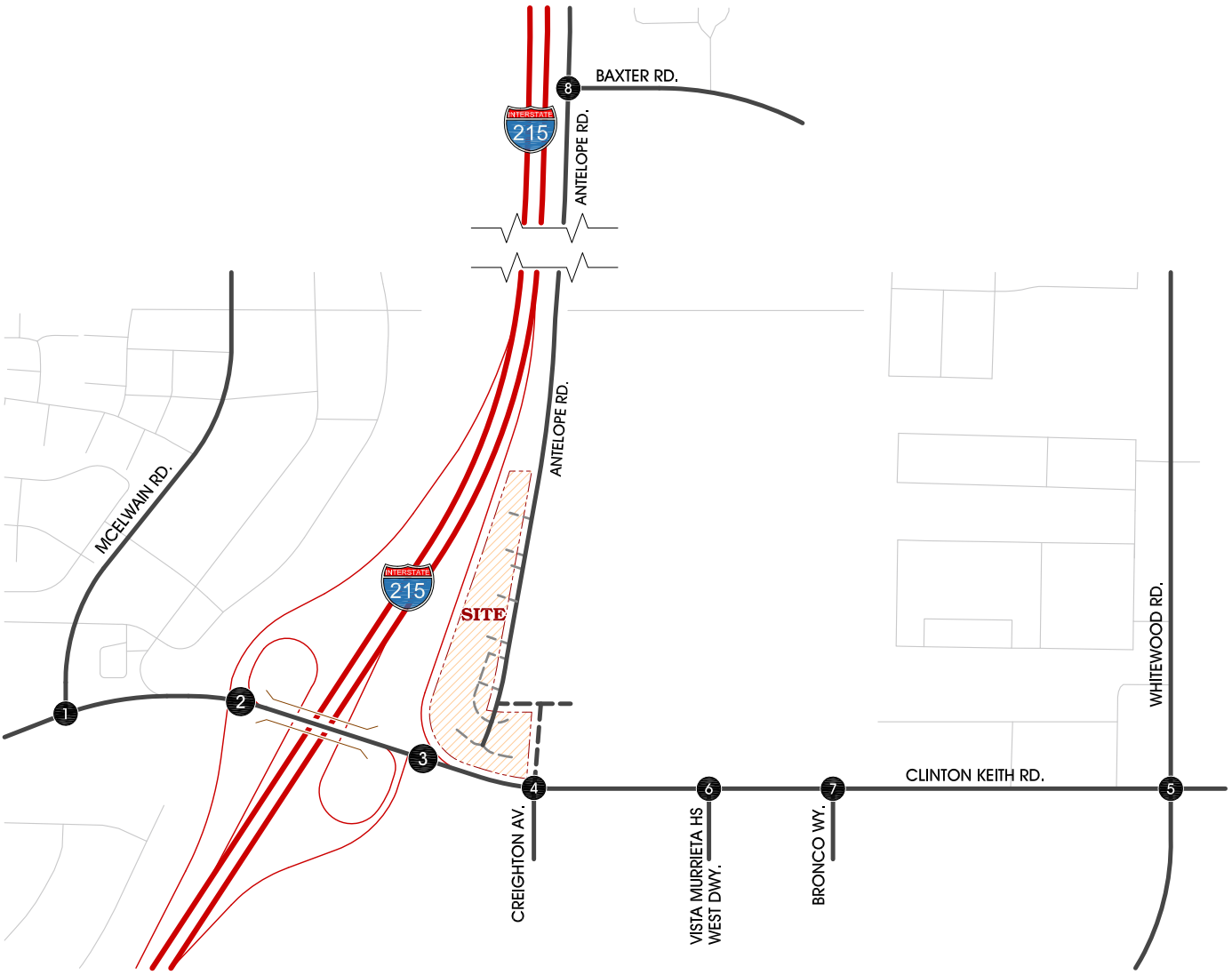
7 = INTERSECTION ID

= FUTURE ROAD

= WARM SPRINGS PARKWAY, FUTURE ROADWAY DEFERRED - CITY TO EXTEND

N

FIGURE 4-J
EXISTING + AMBIENT + PROJECT (2021)
SATURDAY MD PEAK HOUR INTERSECTION VOLUMES



1. McElwain Rd. / Clinton Keith Rd.		2. I-215 SB Ramps / Clinton Keith Rd.		3. I-215 NB Ramps / Clinton Keith Rd.		4. Creighton Av. / Clinton Keith Rd.		5. Whitewood Rd. / Clinton Keith Rd.	
273 ↓ 13 ↓ 460	270 ← 1034 ← 27	566 ↓ 0 ↓ 215	349 ← 908		170 ← 877	262 ↓ 17 ↓ 134	162 ← 748 ← 8 ← 0	265 ↓ 230 ↓ 57	31 ← 386 ← 118
298 → 1187 → 14 ↓	11 ↑ 6 ↑ 24 ↑	1185 → 458 ↓		842 → 553 ↓	396 ↑ 405 ↑	8 ↺ 242 → 937 → 55 ↓	54 ↑ 18 ↑ 12 ↑	349 → 488 → 212 ↓	155 ↑ 152 ↑ 95 ↑

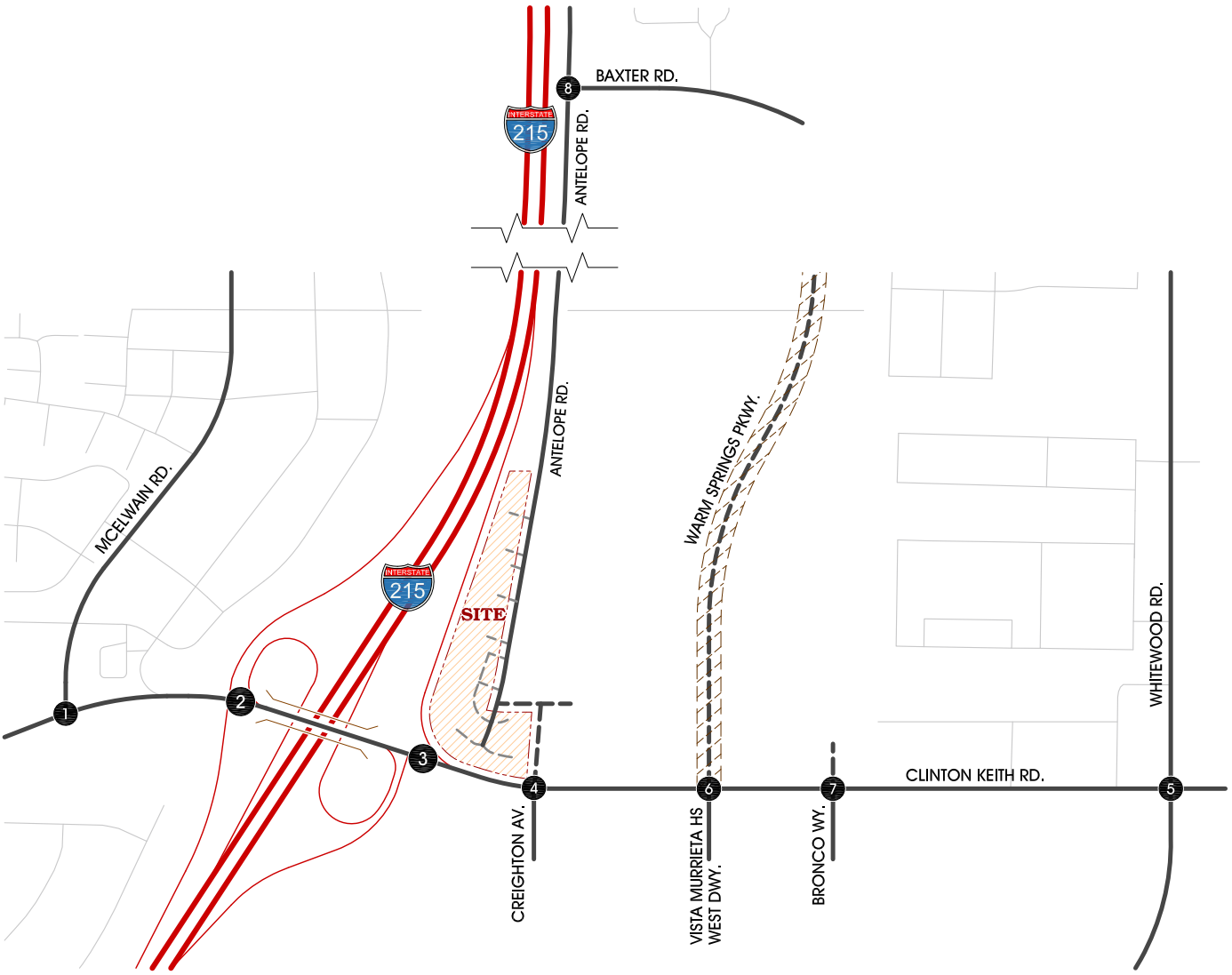
6. Vista Murrieta W. Dwy. / Clinton Keith Rd.		7. Bronco Wy. / Clinton Keith Rd.		8. Antelope Rd. / Baxter Rd.
← 888		← 825 ← 21 ← 17		NOT ANALYZED (SATURDAY CONDITIONS)
1083 → 0 ↓	0 ↑	1 ↺ 1036 → 24 ↓	63 ↑ 10 ↑	

LEGEND:

- 7 = INTERSECTION ID
- = FUTURE ROAD
- = WARM SPRINGS PARKWAY, FUTURE ROADWAY DEFERRED - CITY TO EXTEND

N

FIGURE 4-K
EXISTING + AMBIENT + CUMULATIVE (2021) AM PEAK HOUR INTERSECTION VOLUMES



1. McElwain Rd. / Clinton Keith Rd.		2. I-215 SB Ramps / Clinton Keith Rd.		3. I-215 NB Ramps / Clinton Keith Rd.		4. Creighton Av. / Clinton Keith Rd.		5. Whitewood Rd. / Clinton Keith Rd.	
230 ← 3 → 389	151 ← 1233 → 3	711 ← 1 → 251	430 ← 832		267 ← 1017	65 ← 0 → 0	6 ← 1111 → 32 → 0	420 ← 333 → 121	64 ← 163 → 54
297 → 1717 → 5	5 ← 1 → 5	1572 → 596 →		880 → 918 →	264 ← 631	6 → 32 → 1409 → 76 →	132 ← 0 → 25	339 → 303 → 136 →	243 ← 171 → 108

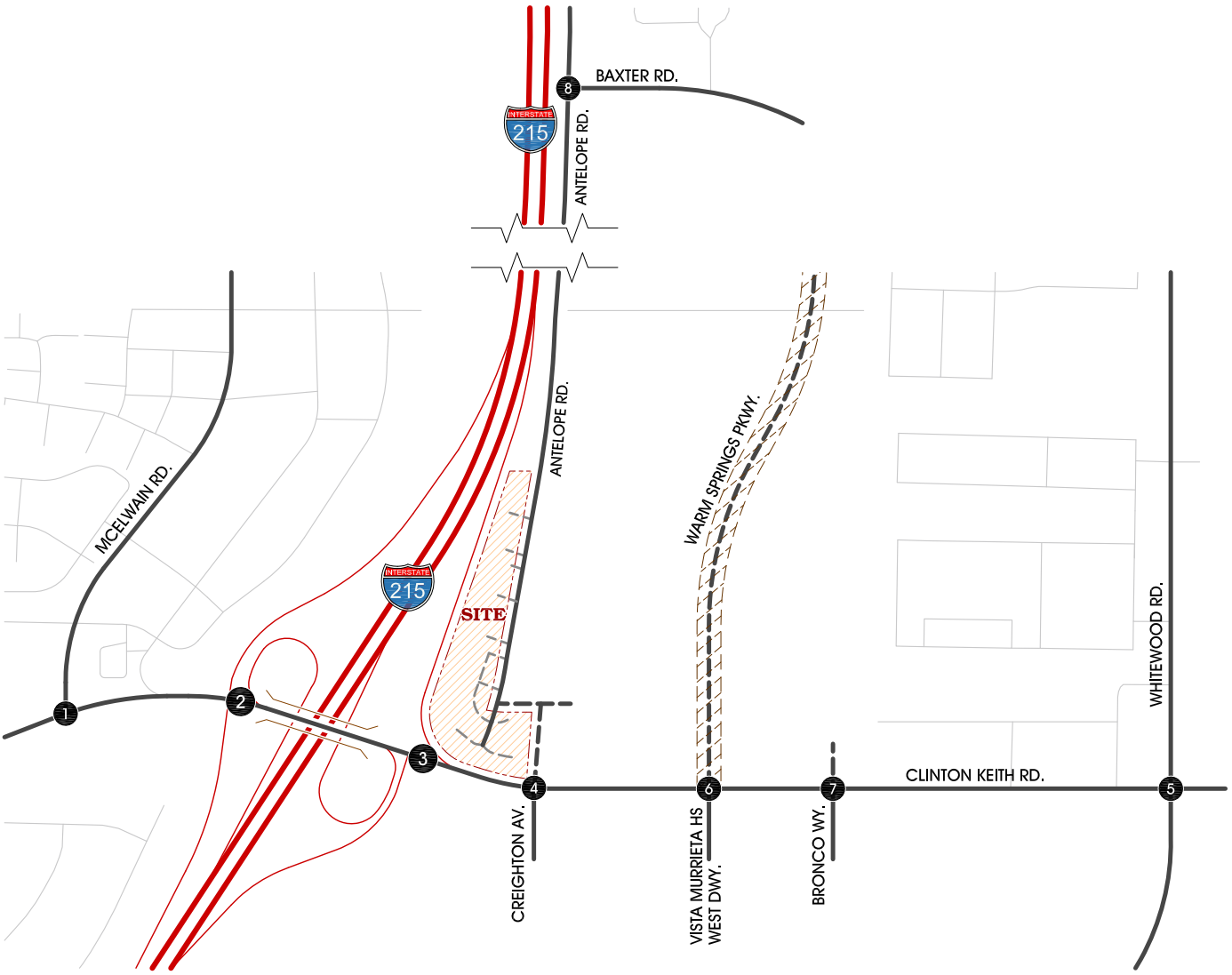
6. Vista Murrieta W. Dwy. / Clinton Keith Rd.		7. Bronco Wy. / Clinton Keith Rd.		8. Antelope Rd. / Baxter Rd.	
175 ← 1 → 109	89 ← 976 → 12	10 ← 1 → 19	31 ← 699 → 228 → 0	238 ← 209	93 ← 126
246 → 968 → 259 →	17 ← 1 → 15	0 → 15 → 841 → 203 →	321 ← 1 → 94		125 ← 107

LEGEND:

- 7 = INTERSECTION ID
- = FUTURE ROAD
- = WARM SPRINGS PARKWAY, FUTURE ROADWAY DEFERRED - CITY TO EXTEND

N

FIGURE 4-L
EXISTING + AMBIENT + CUMULATIVE (2021) PM PEAK HOUR INTERSECTION VOLUMES



1. McElwain Rd. / Clinton Keith Rd.		2. I-215 SB Ramps / Clinton Keith Rd.		3. I-215 NB Ramps / Clinton Keith Rd.		4. Creighton Av. / Clinton Keith Rd.		5. Whitewood Rd. / Clinton Keith Rd.	
430 ↓ 21 ↱ 532	↰ 359 ← 1653 ↱ 25	783 ↓ 1 ↱ 540	← 494 ↰ 1473		↰ 346 ← 1438	39 ↓ 0 ↱ 132	↰ 127 ← 1709 ↱ 37 ↱ 2	507 ↓ 292 ↱ 112	↰ 75 ← 667 ↱ 117
434 → 1919 → 29 ↱	16 ↑ 13 ↱ 41	1915 → 582 ↱		1717 → 697 ↱	541 ↱ 660	8 ↰ 27 ↰ 2276 → 84 ↱	55 ↑ 0 ↱ 25	653 → 942 → 364 ↱	296 ↑ 389 ↱ 119

6. Vista Murrieta W. Dwy. / Clinton Keith Rd.		7. Bronco Wy. / Clinton Keith Rd.		8. Antelope Rd. / Baxter Rd.	
566 ↓ 1 ↱ 276	↰ 144 ← 1305 ↱ 1	81 ↓ 1 ↱ 100	↰ 78 ← 1248 ↰ 143 ↰ 38	168 ↓ 81	↰ 201 ↱ 101
656 → 1693 → 50 ↱	1 ↑ 1 ↱ 21	16 ↰ 89 ↰ 1816 → 99 ↱	121 ↑ 1 ↱ 80		258 ↑ 115

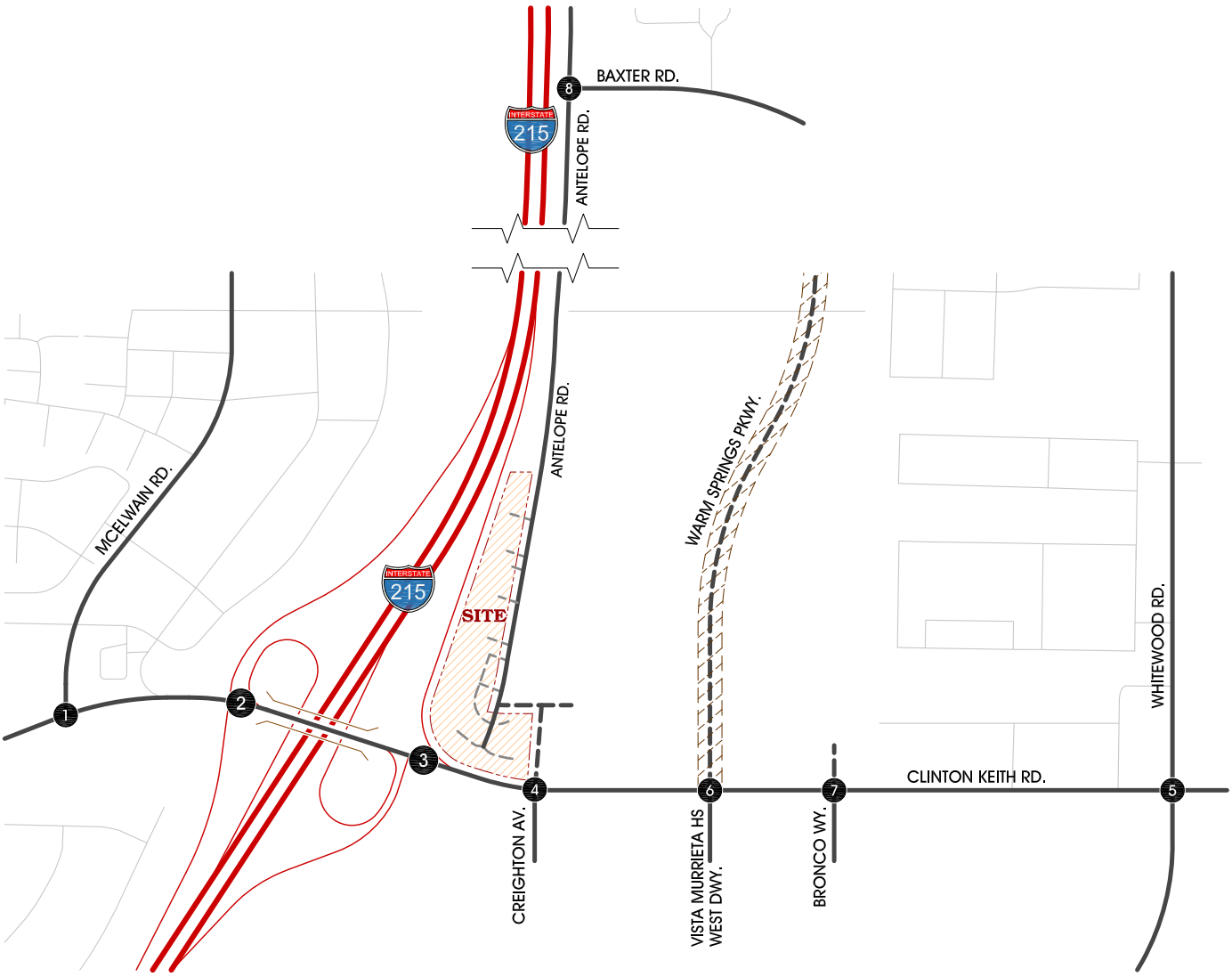
LEGEND:

- 7 = INTERSECTION ID
- = FUTURE ROAD
- = WARM SPRINGS PARKWAY, FUTURE ROADWAY DEFERRED - CITY TO EXTEND

N

FIGURE 4-M

EXISTING + AMBIENT + CUMULATIVE (2021) SATURDAY MD PEAK HOUR INTERSECTION VOLUMES



1. McElwain Rd. / Clinton Keith Rd.		2. I-215 SB Ramps / Clinton Keith Rd.		3. I-215 NB Ramps / Clinton Keith Rd.		4. Creighton Av. / Clinton Keith Rd.		5. Whitewood Rd. / Clinton Keith Rd.	
376 ↓ 16 ↑ 622	← 390 ← 1311 ↰ 26	648 ↓ 0 ↑ 486	← 452 ← 1306		← 373 ← 1272	53 ↓ 0 ↑ 133	← 139 ← 1561 ↰ 7 ↰ 0	376 ↓ 280 ↑ 96	← 60 ← 549 ↰ 116
381 → 1515 → 14 ↘	↱ 11 ↑ 10 ↱ 23	1555 → 582 ↘		1429 → 605 ↘	↱ 511 ↱ 484	↱ 8 ↱ 47 1799 → 54 ↘	↱ 53 ↑ 0 ↱ 12	472 → 645 → 290 ↘	↱ 243 ↑ 198 ↱ 93

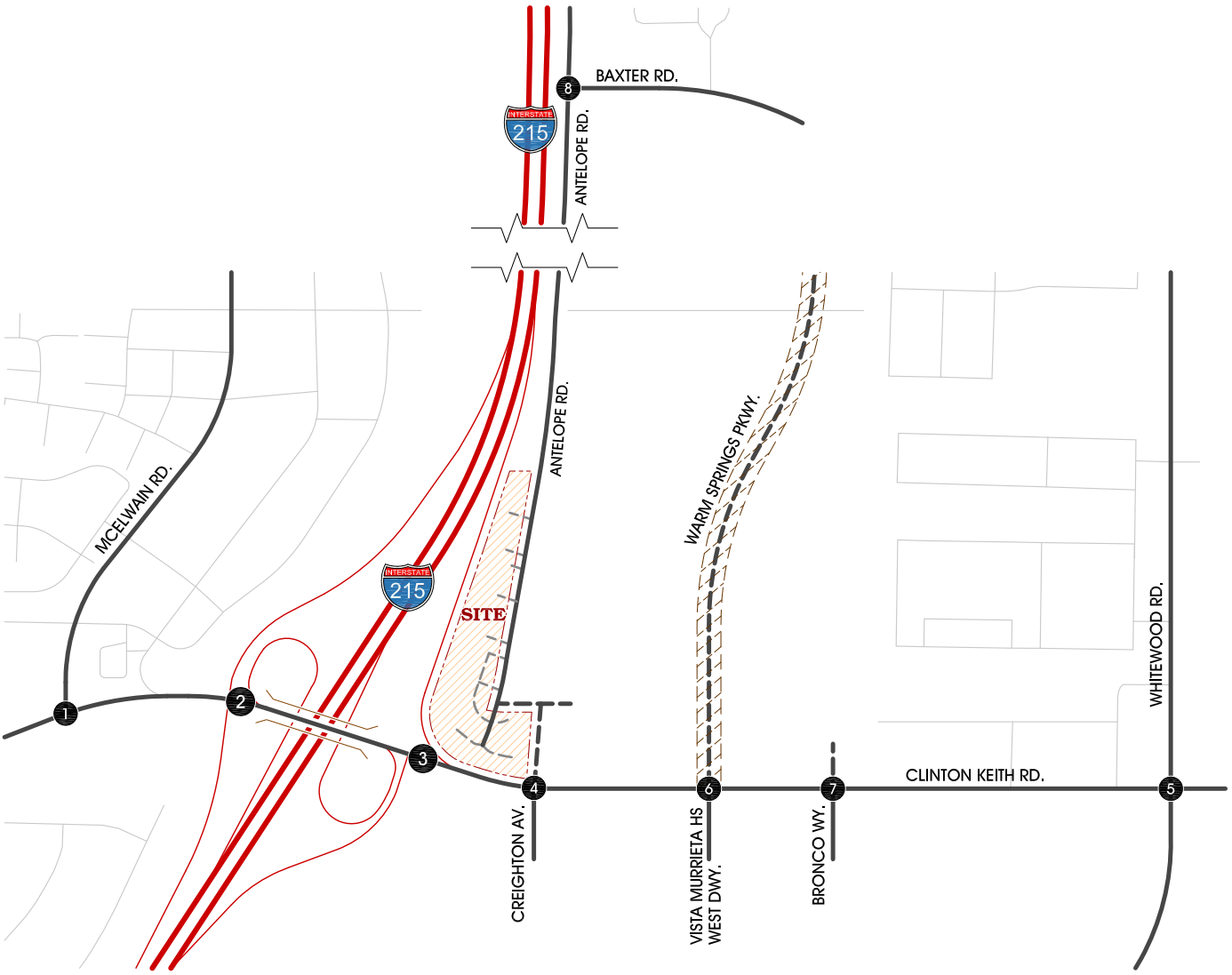
6. Vista Murrieta W. Dwy. / Clinton Keith Rd.		7. Bronco Wy. / Clinton Keith Rd.		8. Antelope Rd. / Baxter Rd.
615 ↓ 0 ↑ 317	← 171 ← 1066 ↰ 0	111 ↓ 0 ↑ 136	← 125 ← 1063 ↰ 19 ↰ 17	NOT ANALYZED (SATURDAY CONDITIONS)
839 → 1076 → 0 ↘	↱ 0 ↑ 0 ↱ 0	↱ 1 144 → 1235 → 23 ↘	↱ 61 ↑ 0 ↱ 10	

LEGEND:

- 7 = INTERSECTION ID
- = FUTURE ROAD
- = WARM SPRINGS PARKWAY, FUTURE ROADWAY DEFERRED - CITY TO EXTEND

N

FIGURE 4-N
EXISTING + AMBIENT + PROJECT + CUMULATIVE (2021) AM PEAK HOUR INTERSECTION VOLUMES



1. McElwain Rd. / Clinton Keith Rd.		2. I-215 SB Ramps / Clinton Keith Rd.		3. I-215 NB Ramps / Clinton Keith Rd.		4. Creighton Av. / Clinton Keith Rd.		5. Whitewood Rd. / Clinton Keith Rd.	
230 ↓ 3 ↱ 398	↰ 158 ← 1261 ↱ 3	711 ↓ 1 ↱ 277	↰ 458 ← 867		↰ 288 ← 1080	168 ↓ 7 ↱ 52	↰ 76 ← 1092 ↱ 32 0	437 ↓ 333 ↱ 121	↰ 64 ← 180 ↱ 54
297 → 1751 → 5 ↱	↰ 5 ↑ 1 ↱ 5	1615 → 596 ↱		948 → 918 ↱	↰ 264 ↑ 665	6 ↰ 145 ↰ 1399 → 76 ↱	132 ↑ 9 ↱ 25	353 → 317 → 150 ↱	260 ↑ 171 ↱ 108

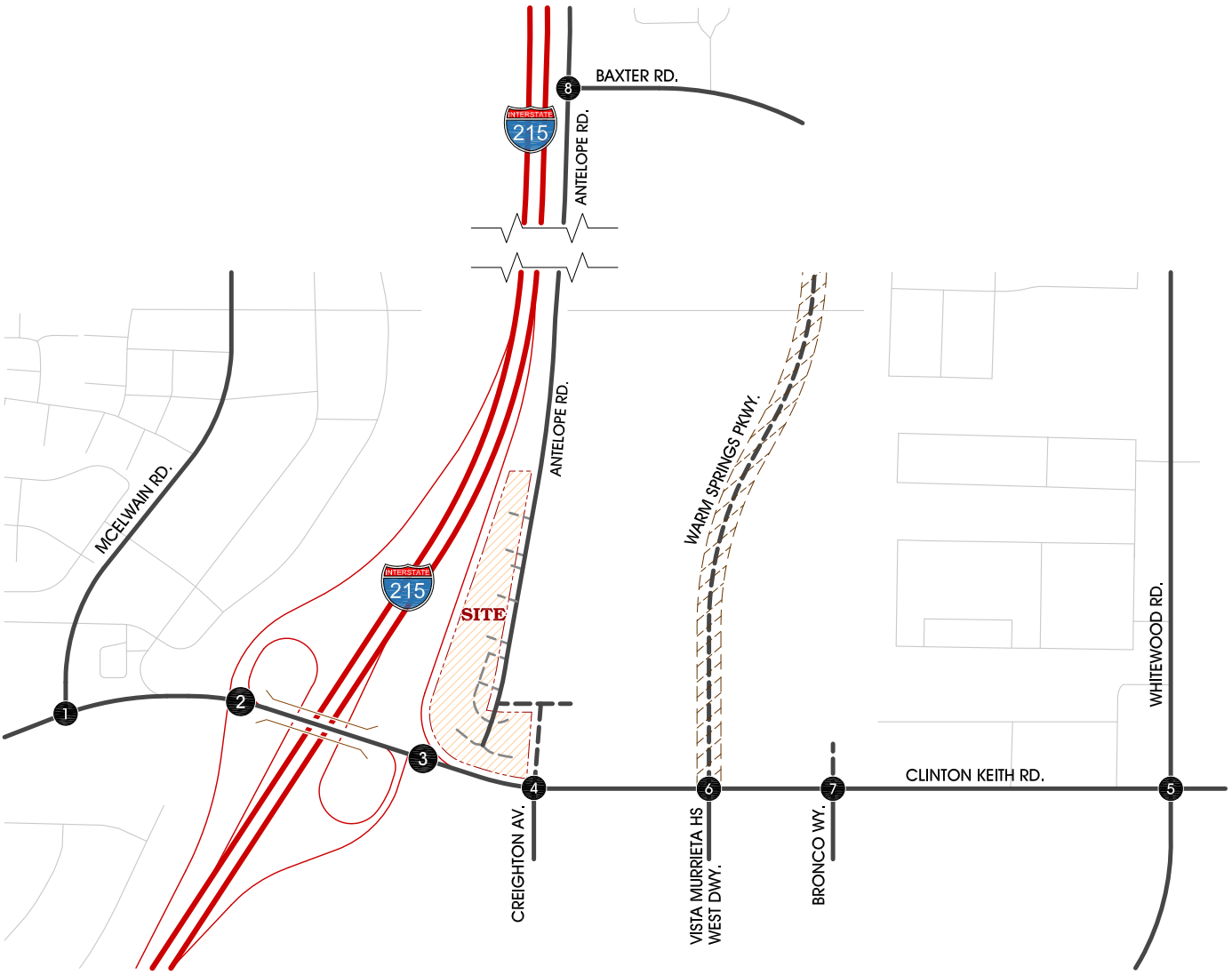
6. Vista Murrieta W. Dwy. / Clinton Keith Rd.		7. Bronco Wy. / Clinton Keith Rd.		8. Antelope Rd. / Baxter Rd.	
175 ↓ 1 ↱ 109	↰ 89 ← 1027 ↱ 12	10 ↓ 1 ↱ 19	↰ 31 ← 750 ↱ 228 0	247 ↓ 209	↰ 93 ↑ 126
246 → 1010 → 259 ↱	↰ 17 ↑ 1 ↱ 15	0 ↰ 15 ↰ 883 → 203 ↱	321 ↑ 1 ↱ 94		↑ 132 ↱ 107

LEGEND:

- 7 = INTERSECTION ID
- = FUTURE ROAD
- = WARM SPRINGS PARKWAY, FUTURE ROADWAY DEFERRED - CITY TO EXTEND

N

FIGURE 4-O
EXISTING + AMBIENT + PROJECT + CUMULATIVE (2021) PM PEAK HOUR INTERSECTION VOLUMES



1. McElwain Rd. / Clinton Keith Rd.		2. I-215 SB Ramps / Clinton Keith Rd.		3. I-215 NB Ramps / Clinton Keith Rd.		4. Creighton Av. / Clinton Keith Rd.		5. Whitewood Rd. / Clinton Keith Rd.	
430 → 21 ↓ 542 ←	369 → 1692 ← 25 ↓	783 → 1 ↓ 570 ←	533 ← 1522		376 ← 1527	181 → 10 ↓ 204 ←	210 ← 1685 ← 39 ↓ 2	527 → 292 ↓ 112 ←	75 ← 687 ← 117
434 → 1959 → 29 ↓	16 ↑ 13 ↑ 41 ↑	1965 → 582 ↓		1796 → 697 ↓	541 ↑ 700 ↑	8 ↓ 167 → 2263 → 84 ↓	55 ↑ 10 ↑ 25 ↑	673 → 962 → 384 ↓	316 ↑ 389 ↑ 119 ↑

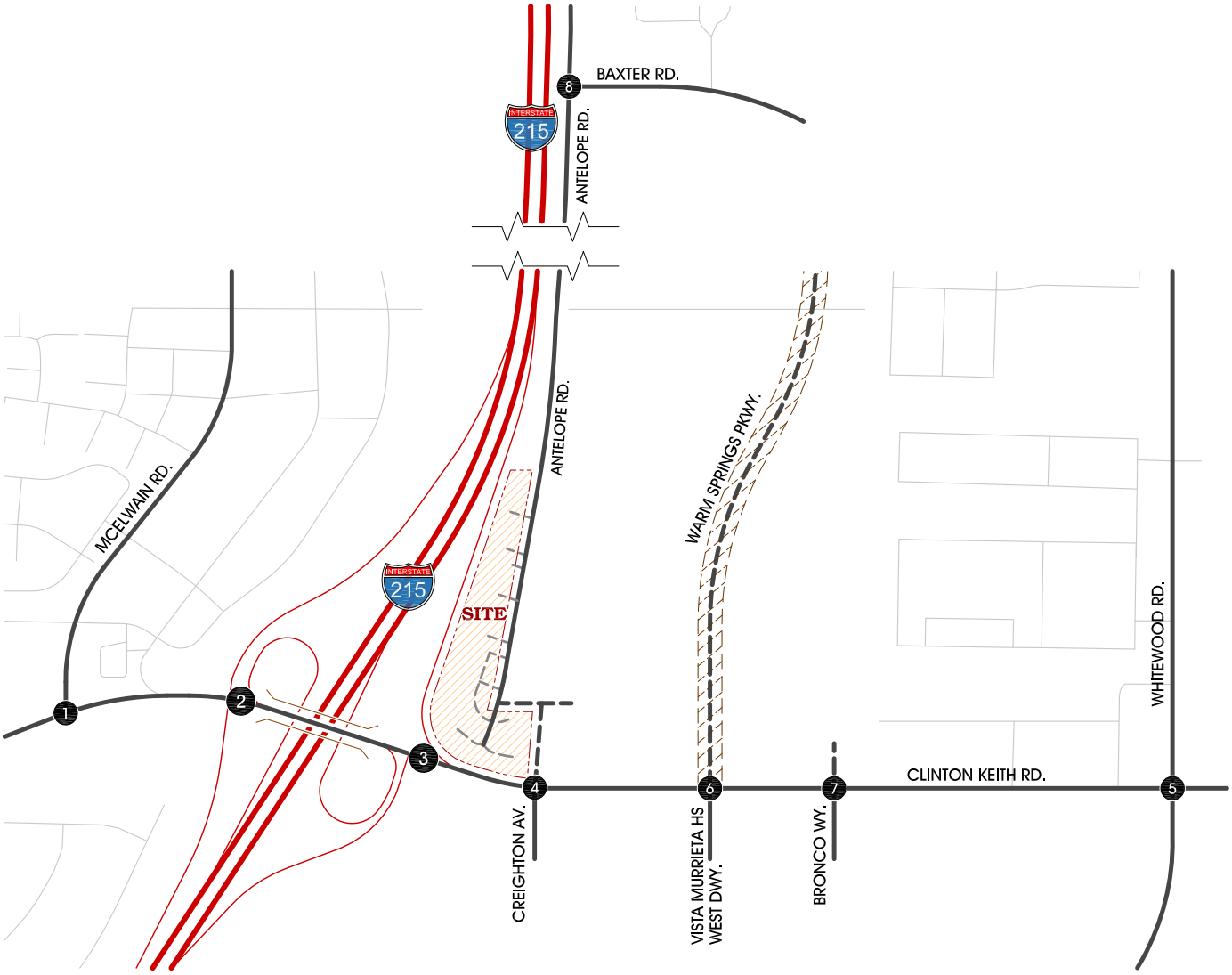
6. Vista Murrieta W. Dwy. / Clinton Keith Rd.		7. Bronco Wy. / Clinton Keith Rd.		8. Antelope Rd. / Baxter Rd.	
566 → 1 ↓ 276 ←	144 ← 1364 ← 1 ↓	81 → 1 ↓ 100 ←	78 ← 1307 ← 181 ↓ 38	178 → 81 ↓	201 ← 101 ↓
656 → 1752 → 50 ↓	1 ↑ 1 ↑ 21 ↑	16 ↓ 105 → 1875 → 99 ↓	121 ↑ 1 ↑ 80 ↑		268 ↑ 115 ↑

LEGEND:

- 7 = INTERSECTION ID
- = FUTURE ROAD
- = WARM SPRINGS PARKWAY, FUTURE ROADWAY DEFERRED - CITY TO EXTEND

N

FIGURE 4-P
EXISTING + AMBIENT + PROJECT + CUMULATIVE (2021) SATURDAY MD PEAK HOUR INTERSECTION VOLUMES



1. McElwain Rd. / Clinton Keith Rd.		2. I-215 SB Ramps / Clinton Keith Rd.		3. I-215 NB Ramps / Clinton Keith Rd.		4. Creighton Av. / Clinton Keith Rd.		5. Whitewood Rd. / Clinton Keith Rd.	
376 ↓ 16 ← 640	407 ← 1379 ↰ 26	648 ↓ 0 ← 539	520 ← 1392		424 ← 1426	315 ↓ 17 ← 267	301 ← 1504 ↰ 7 ↰ 0	411 ↓ 280 ← 96	60 ← 584 ↰ 116
381 → 1585 → 14 ↰	11 ↑ 10 ↱ 23	1643 → 582 ↰		1569 → 605 ↰	511 ↑ 554 ↱	8 ↰ 296 → 1768 → 54 ↰	53 ↑ 18 ↱ 12	506 → 679 → 324 ↰	278 ↑ 198 ↱ 93

6. Vista Murrieta W. Dwy. / Clinton Keith Rd.		7. Bronco Wy. / Clinton Keith Rd.		8. Antelope Rd. / Baxter Rd.
615 ↓ 0 ← 317	171 ← 1171 ↰ 0	111 ↓ 0 ← 136	125 ← 1168 ↰ 19 ↰ 17	NOT ANALYZED (SATURDAY CONDITIONS)
839 → 1179 → 0 ↰	0 ↑ 0 ↱ 0	1 ↰ 144 → 1338 → 23 ↰	61 ↑ 0 ↱ 10	

LEGEND:

- 7 = INTERSECTION ID
- = FUTURE ROAD
- = WARM SPRINGS PARKWAY, FUTURE ROADWAY DEFERRED - CITY TO EXTEND

N

5.0 TRAFFIC ANALYSIS

Peak hour intersection analysis has been performed at the study area intersections for each of the project scenarios and for projected future conditions. Improvements are recommended to satisfy the level of service requirements of the City of Murrieta and if the following impacts are identified:

1) When existing traffic conditions (Analysis Scenario 1) exceed the General Plan target LOS.

2) When project traffic, when added to existing traffic (Analysis Scenario 2), will deteriorate the LOS to below the target LOS, and impacts cannot be mitigated through project conditions of approval.

3) When cumulative traffic (Analysis Scenario 3) exceeds the target LOS, and impacts cannot be mitigated through existing infrastructure funding mechanisms.

A. Existing plus Ambient plus Project (E+A+P) (2021) Conditions

The results of the E+A+P (2021) conditions intersection analysis are summarized in Table 5-1.1. The E+A+P (2021) condition operations analysis worksheets are provided in Appendix "G".

For EAP conditions, the study area intersections are anticipated to operate at an acceptable level of service (LOS “D” or better) during the peak hours with the following planned improvements:

Creighton Avenue / Clinton Keith Road (#4)

- Modify existing northbound (NB) right turn lane to a shared through right lane.
- Construct one southbound (SB) left turn lane and one SB shared through right lane.
- Construct one westbound (WB) right turn lane.
- Install a “no right turn on red” signage for the SB approach.

In addition, improvements at the Whitewood Road / Clinton Keith Road were recently constructed. Therefore, the following configuration is shown as built for future conditions:

Whitewood Road / Clinton Keith Road (#5)

- NB Approach: one left turn lane, one through lane, and one shared through/right lane.
- SB Approach: one left turn lane, one through lane, and one shared through/right lane.
- EB approach: two left turn lanes, two through lanes, and one right turn lane.

TABLE 5-1.1

INTERSECTION ANALYSIS FOR EXISTING PLUS AMBIENT PLUS PROJECT (2021) CONDITIONS

ID	Intersection	Traffic Control [1]	Intersection Approach Lanes [2]												Delay [3] (secs.)			Level of Service [3]		
			Northbound			Southbound			Eastbound			Westbound			Weekday		Sat	Weekday		Sat
			L	T	R	L	T	R	L	T	R	L	T	R	AM	PM	MD	AM	PM	MD
1	McElwain Rd. / Clinton Keith Rd.	TS	1	1	0	2	1	0	2	3	1	1	3	1>	14.1	20.1	19.8	B	C	B
2	I-215 SB Ramps / Clinton Keith Rd.	TS	0	0	0	0	1	2	0	3	1	0	3	1>>	12.5	12.7	12.7	B	B	B
3	I-215 NB Ramps / Clinton Keith Rd.	TS	1	0	1	0	0	0	0	3	1>>	0	3	1>>	33.8	23.4	21.1	C	C	C
4	Creighton Ave. / Clinton Keith Rd.	TS	1	1	0	1	1	0	1	3	1	1	3	1	39.8	33.9	43.5	D	C	D
5	Whitewood Rd. / Clinton Keith Rd.	TS	1	*2*	0	1	2	0	2	*2*	1	*2*	*3*	*1*	36.0	45.5	26.5	D	D	C
6	Vista Murrieta HS W. Dwy. / Clinton Keith Rd.	CSS	0	0	1	0	0	0	0	3	0	0	3	0	16.3	16.2	0.0	C	C	A
7	Bronco Wy. / Clinton Keith Rd.	TS	2	0	1	0	0	0	1U	3	d	1	3	0	19.2	12.0	4.1	B	B	A
8	Antelope Rd. / Baxter Rd.	TS	0	1	1	1	1	0	0	0	0	1	0	1	26.1	27.4	-	C	C	-

[1] TS = Traffic Signal; CSS = Cross Street Stop

[2] When a right turn is designated, the lane can either be striped or unstriped. To function as a right turn lane there must be sufficient width for right turning vehicles to travel outside the through lanes.

L = Left; T = Through; R = Right; 1! = Shared Left-Through-Right Lane; 0.5 = Shared Lane ; d = Defacto right turn lane; > = Right Turn Overlap; >> = Free Right Turn Lane

1 = Recently built in 2018 after counts were taken; 1 = Lane Improvement

[3] Delay and level of service calculated using the following analysis software: Synchro Software

- WB approach: two left turn lanes, three through lanes, and right turn lane.

The 95th percentile queueing analysis results for E+A+P (2021) traffic conditions are presented in Table 5-1.2. Based on the analysis, it appears that the Whitewood/Clinton Keith intersection will have excessive queuing on the northbound and southbound left turn movements. The project will be responsible for designing, furnishing and installing the proposed lengthening of the turn pockets. Since the lengthening of the turn pockets will not accommodate the forecasted queues, a statement of overriding considerations will be required. The queuing analysis worksheets are included in Appendix "G".

Table 5-2 provides a summary of the EAP (2021) conditions roadway segment capacity analysis. As shown on Table 5-2, the study area roadway segments are anticipated to continue to operate within LOS "C" capacity thresholds.

Tables 5-3 and 5-4 summarize the freeway ramp analysis for I-215 at the Clinton Keith Road Interchange. As shown on Tables 5-3 and 5-4, the freeway ramps and basic freeway segments analyzed for this study were found to operate at an acceptable LOS (LOS "D" or better) during the peak hours. The EAP ramp analysis worksheets are provided in Appendix "H". The basic freeway segment analysis worksheets for EAP conditions are included in Appendix "I".

B. Existing plus Ambient plus Cumulative (E+A+C) (2021) Conditions

The results of the E+A+C (2021) conditions intersection analysis are summarized in Table 5-5.1. The E+A+C (2021) condition operations analysis worksheets are provided in Appendix "J".

For EAC conditions, the intersection of Whitewood Road / Clinton Keith Road is anticipated to operate at LOS E during the PM peak hour conditions. It should be noted however that the City's General Plan has projected this intersection to be deficient and accepts LOS E as an acceptable performance for Whitewood / Clinton Keith Road (#5) intersection. The remaining study area intersections are anticipated to operate at an acceptable level of service (LOS "D" or better) during the peak hours with the following planned improvements, in addition to the improvements identified under EAP conditions:

Warm Springs Parkway – Vista Murrieta HS W. Driveway / Clinton Keith Road (#6)

- Install Traffic Signal
- Provide a SB right turn overlap phase
- Restrict eastbound U-Turns
- NB Approach: provide two left turn lanes, one through lane, and maintain existing right turn lane.

TABLE 5-1.2

QUEUEING ANALYSIS SUMMARY FOR EXISTING PLUS AMBIENT PLUS PROJECT (2021) WITH INTERSECTION IMPROVEMENTS

ID	Intersection	Turning Movement Lane	Storage Length Provided[2] (feet)	95th Percentile Queue Length Per Lane (feet)[1]		
				Weekday		Saturday
				AM	PM	MD
1	McElwain / Clinton Keith Rd.					
		EBL	200	165	224 [3]	176
		EBR	100	0	0	0
		WBL	200	9	44	53
		WBR	160	15	54	23
		NBL	50	20	41	31
		SBL	250	192	201	242
2	I-215 SB Ramps / Clinton Keith Rd.					
		EBR	400	29	47	64
		WBR	150	14	0	0
		SBR	>1000	241	366	226
3	I-215 NB Ramps / Clinton Keith Rd.					
		NBL	960	127	434	387
		NBR	960	446	399	348
4	Creighton Ave. / Clinton Keith Rd.					
		EBL	**300**	172	202	312 [3]
		EBR	200	49	89	11
		WBL	230	68	65	27
		WBR	150	25	8	80
		NBL	200	200	112	91
		SBL	245	92	120	244
5	Whitewood Rd. / Clinton Keith Rd.					
		EBL	525	200	409	216
		EBR	250	48	56	59
		WBL	200	52	52	90
		WBR	200	0	0	0
		NBL	**420**	330	***462*** [4]	219
		SBL	**100**	**179**	**172**	102
7	Bronco Wy. / Clinton Keith Rd.					
		EBU	200	0	0	0
		WBL	315	294	214	71
		NBL	355	170	95	53
8	Antelope Rd. / Baxter Rd.					
		WBL	520	64	69	-
		WBR	520	39	45	-
		NBR	50	25	8	-
		SBL	150	169 [3]	86	-

[1] Queue length calculated using Synchro 8
BOLD = exceeds storage lane

[2] Existing/Proposed pocket length storage (for turning movements) or link distance (for through movements). 100 = Existing; **100** = Proposed
100 = Recommended

[3] 95th percentile queue is anticipated to exceed available storage length. However, the excess queue length can be accommodated within the transition lane.

[4] It should be noted that a school access located along Whitewood Road is approximately 480 ft. south of Clinton Keith Road and extending the NBL turn lane at Clinton Keith Road over 420 ft. is not feasible. Therefore, the 95th percentile queue for the NBL is is anticipated to continue to exceed available storage length.

TABLE 5-2

ROADWAY SEGMENT ANALYSIS FOR EXISTING PLUS AMBIENT PLUS PROJECT (2021) CONDITIONS

Roadway	Segment Limits	General Plan Roadway Classification	Through Travel Lanes[1]	Roadway Capacity and LOS Criteria[2] (Maximum 2-Way ADT)		EAP Conditions					
						Weekday			Saturday		
				LOS C	LOS E	ADT	V/C[3]	LOS	ADT	V/C[3]	LOS
Clinton Keith Rd.	west of Creighton Av.	Urban Arterial	6	43,100	53,900	29,945	0.56	A	26,558	0.49	A
	east of Creighton Av.	Urban Arterial	6	43,100	53,900	28,615	0.53	A	24,228	0.45	A

[1] 1 = Existing number of through lanes

[2] Source: City of Murrieta Daily Roadway Capacity Values

[3] V/C = ADT / LOS E Roadway Capacity

TABLE 5-3

FREEWAY RAMP ANALYSIS FOR EXISTING PLUS AMBIENT PLUS PROJECT (2021) CONDITIONS

Freeway	Ramp Location	Lanes on Freeway[1]	Lanes on Ramp[1]	Ramp Volumes			Density[2]			Level of Service[3]		
				Weekday		Sat	Weekday		Sat	Weekday		Sat
				AM	PM	MD	AM	PM	MD	AM	PM	MD
I-215 Southbound	Clinton Keith Rd. Off-Ramp	3	1	824	1,000	781	33.5	29.2	31.7	D	D	D
	Clinton Keith Rd. Loop On-Ramp	3	1	366	273	349	27.0	20.3	25.3	C	C	C
	Clinton Keith Rd. Slip On-Ramp	3	1	511	465	458	29.7	22.8	27.6	D	C	C
I-215 Northbound	Clinton Keith Rd. Off-Ramp	3	1	769	872	801	22.4	31.8	29.2	C	D	D
	Clinton Keith Rd. Loop On-Ramp	3	1	813	791	553	18.4	27.4	22.8	B	C	C
	Clinton Keith Rd. Slip On-Ramp	3	1	178	89	170	18.0	26.2	23.0	B	C	C

[1] Existing number of lanes.

[2] Density is measured by passenger cars per lane (pc/mi/ln)

[3] Density and level of service calculated using the following analysis software: HCS2010, Version 6.65

TABLE 5-4

BASIC FREEWAY SEGMENT ANALYSIS FOR EXISTING PLUS AMBIENT PLUS PROJECT (2021) CONDITIONS

Freeway	Ramp Location	Lanes on Freeway[1]	Freeway Volumes			Density[2]			Level of Service[3]		
			Weekday		Sat	Weekday		Sat	Weekday		Sat
			AM	PM	MD	AM	PM	MD	AM	PM	MD
I-215 Southbound	North of Clinton Keith Rd.	3	4,876	4,018	4,664	28.5	21.4	25.6	D	C	C
	South of Clinton Keith Rd.	3	4,929	3,756	4,690	29.0	19.8	25.8	D	C	C
I-215 Northbound	South of Clinton Keith Rd.	3	2,726	4,525	4,028	14.5	24.8	21.6	B	C	C
	North of Clinton Keith Rd.	3	2,948	4,533	3,950	15.7	25.6	21.1	B	C	C

[1] Density is measured by passenger cars per lane (pc/mi/ln)

[2] Density and level of service calculated using the following analysis software: HCS2010, Version 6.65

TABLE 5-5.1

INTERSECTION ANALYSIS FOR EXISTING PLUS AMBIENT PLUS CUMULATIVE (2021) CONDITIONS

ID	Intersection	Traffic Control [1]	Intersection Approach Lanes [2]												Delay [3] (secs.)			Level of Service [3]		
			Northbound			Southbound			Eastbound			Westbound			Weekday		Sat	Weekday		Sat
			L	T	R	L	T	R	L	T	R	L	T	R	AM	PM	MD	AM	PM	MD
1	McElwain Rd. / Clinton Keith Rd.	TS	1	1	0	2	1	0	2	3	1	1	3	1>	14.7	37.8	24.4	B	D	C
2	I-215 SB Ramps / Clinton Keith Rd.	TS	0	0	0	0	1	2	0	3	1	0	3	1>>	12.3	12.6	9.1	B	B	A
3	I-215 NB Ramps / Clinton Keith Rd.	TS	1	0	1	0	0	0	0	3	1>>	0	3	1>>	36.0	16.1	13.6	D	B	B
4	Creighton Ave. / Clinton Keith Rd.	TS	1	1	0	1	1	0	1	3	1	1	3	1	40.8	23.9	26.4	D	C	C
5	Whitewood Rd. / Clinton Keith Rd.[4]	TS	1	*2*	0	1	2	0	2	*2*	1	*2*	*3*	*1*	39.5	71.0	36.8	D	E	D
6	Vista Murrieta HS W. Dwy. / Clinton Keith Rd.	TS	2	1	1	2	1	2>	2	3	0	1	3	1	10.7	17.2	22.8	B	B	C
7	Bronco Wy. / Clinton Keith Rd.	TS	2	1	0	1	1	0	1	3	d	1	3	1	27.2	28.8	29.7	C	C	C
8	Antelope Rd. / Baxter Rd.	TS	0	1	1	1	1	0	0	0	0	1	0	1	29.5	28.0	-	C	C	-

[1] TS = Traffic Signal; CSS = Cross Street Stop

[2] When a right turn is designated, the lane can either be striped or unstriped. To function as a right turn lane there must be sufficient width for right turning vehicles to travel outside the through lanes.
L = Left; T = Through; R = Right; 1! = Shared Left-Through-Right Lane; 0.5 = Shared Lane ; d = Defacto right turn lane; > = Right Turn Overlap; >> = Free Right Turn Lane
1 = Recently built in 2018 after counts were taken; 1 = Lane Improvement

[3] Delay and level of service calculated using the following analysis software: Synchro Software

[4] The City's General Plan has identified this intersection to be deficient and accepts LOS E as an acceptable performance criteria.

- SB Approach: construct two left turn lanes, one through lane, and two right turn lanes.
- EB Approach: provide two left turn lanes, and maintain existing 3 through lanes.
- WB Approach: provide one left turn lane, one right turn lane, and maintain existing 3 through lanes.

Bronco Way / Clinton Keith Road (#7)

- Modify existing NB right turn lane to provide one shared through/right lane.
- Construct one SB left turn lane and one SB shared through/right lane.
- Provide one WB right turn lane.

It should be noted that both improvements are anticipated to be constructed in conjunction with the development of nearby cumulative projects (Costco & Vineyard Shopping Center). The 95th percentile queueing analysis results for E+A+C (2021) traffic conditions are presented in Table 5-5.2. Based on the analysis, it appears that the Whitewood/Clinton Keith intersection will have excessive queuing on the northbound and southbound left turn movements. The queuing analysis worksheets are also included in Appendix "J".

Table 5-6 provides a summary of the EAC (2021) conditions roadway segment capacity analysis. As shown on Table 5-6, the study area roadway segments are anticipated to continue to operate within LOS "C" capacity thresholds.

Tables 5-7 and 5-8 summarize the freeway ramp analysis for I-215 at the Clinton Keith Road Interchange. As shown on Tables 5-7 and 5-8, the freeway ramps and basic freeway segments analyzed for this study were found to operate at an acceptable LOS (LOS "D" or better) during the peak hours. The EAC ramp analysis worksheets are provided in Appendix "K". The basic freeway segment analysis worksheets for EAP conditions are included in Appendix "L".

C. Existing Plus Ambient Plus Project Plus Cumulative (E+A+P+C) (2021) Conditions

The results of the E+A+P+C (2021) conditions intersection analysis are summarized in Table 5-9.1. The E+A+P+C (2021) condition operations analysis worksheets are provided in Appendix "M".

For EAPC conditions, the intersection of Whitewood Road / Clinton Keith Road is anticipated to continue to operate at LOS E during the PM peak hour conditions. As mentioned previously, the City's General Plan accepts LOS E as an acceptable performance for Whitewood / Clinton Keith Road (#5) intersection. The remaining study area intersections are anticipated to continue to operate at an acceptable level of service (LOS "D" or better) during the peak hours with the planned improvements identified previously under EAC conditions. However, the following additional improvements are

TABLE 5-5.2

QUEUEING ANALYSIS SUMMARY FOR EXISTING PLUS AMBIENT PLUS CUMULATIVE (2021) WITH INTERSECTION IMPROVEMENTS

ID	Intersection	Turning Movement Lane	Storage Length Provided[2] (feet)	95th Percentile Queue Length Per Lane (feet)[1] Weekday AM	Weekday PM	Saturday MD
1	McElwain / Clinton Keith Rd.					
		EBL	**300**	188	251 [3]	221
		EBR	100	0	0	0
		WBL	200	6	41	46
		WBR	160	29	156	42
		NBL	50	20	41	31
		SBL	**350**	221	300	332
2	I-215 SB Ramps / Clinton Keith Rd.					
		EBR	400	24	367	141
		WBR	150	8	0	0
		SBR	>1000	293	389	288
3	I-215 NB Ramps / Clinton Keith Rd.					
		NBL	960	163	788	553
		NBR	960	533	744	413
4	Creighton Ave. / Clinton Keith Rd.					
		EBL	**300**	61	34	*66*
		EBR	200	39	5	12
		WBL	230	56	38	13
		WBR	150	0	14	14
		NBL	200	200	50	90
		SBL	245	0	240	245
5	Whitewood Rd. / Clinton Keith Rd.					
		EBL	525	228	525	295
		EBR	250	50	157	66
		WBL	200	49	97	91
		WBR	200	0	14	0
		NBL	**420**	373	***548*** [5]	380
		SBL	**100**	**179**	**220**	**160**
6	Warm Springs Pkwy. - Vista Murrieta HS West Dwy. / Clinton Keith Rd.					
		EBL[4]	**600**	189	591	***779***
		WBL	**150**	28	0	0
		WBR	**240**	43	3	0
		NBL	**100**	21	3	0
		NBR	**390**	0	0	0
		SBL	**350**	83	230	272
		SBR	**350**	28	130	144
7	Bronco Wy. / Clinton Keith Rd.					
		EBL	**200**	36	141	210 [3]
		WBL	315	290	308	70
		WBR	85	0	8	41
		NBL	355	247	88	28
		SBL	**150**	47	215	294
8	Antelope Rd. / Baxter Rd.					
		WBL	520	159	133	-
		WBR	520	36	44	-
		NBR	50	53	47	-
		SBL	150	174 [3]	115	-

[1] Queue length calculated using Synchro 8
BOLD = exceeds storage lane

[2] Existing/Proposed pocket length storage (for turning movements) or link distance (for through movements). 100 = Existing; **100** = Proposed
100 = Recommended

[3] 95th percentile queue is anticipated to exceed available storage length. However, the excess queue length can be accommodated within the transition lane.

[4] Staggered dual left turns (300 ft. & 600 ft.)

[5] It should be noted that a school access located along Whitewood Road is approximately 480 ft. south of Clinton Keith Road and extending the NBL turn lane at Clinton Keith Road over 420 ft. is not feasible. Therefore, the 95th percentile queue for the NBL is is anticipated to continue to exceed available storage length.

TABLE 5-6

ROADWAY SEGMENT ANALYSIS FOR EXISTING PLUS AMBIENT PLUS CUMULATIVE (2021) CONDITIONS

Roadway	Segment Limits	General Plan Roadway Classification	Through Travel Lanes[1]	Roadway Capacity and LOS Criteria[2] (Maximum 2-Way ADT)		EAC Conditions					
						Weekday			Saturday		
				LOS C	LOS E	ADT	V/C[3]	LOS	ADT	V/C[3]	LOS
Clinton Keith Rd.	west of Creighton Av.	Urban Arterial	6	43,100	53,900	41,122	0.76	C	41,012	0.76	C
	east of Creighton Av.	Urban Arterial	6	43,100	53,900	41,122	0.76	C	41,012	0.76	C

[1] 1 = Existing number of through lanes

[2] Source: City of Murrieta Daily Roadway Capacity Values

[3] V/C = ADT / LOS E Roadway Capacity

TABLE 5-7

FREEWAY RAMP ANALYSIS FOR
EXISTING PLUS AMBIENT PLUS CUMULATIVE (2021) CONDITIONS

Freeway	Ramp Location	Lanes on Freeway[1]	Lanes on Ramp[1]	Ramp Volumes			Density[2]			Level of Service[3]		
				Weekday		Sat	Weekday		Sat	Weekday		Sat
				AM	PM	MD	AM	PM	MD	AM	PM	MD
I-215 Southbound	Clinton Keith Rd. Off-Ramp	3	1	963	1,324	1,134	34.4	32.3	34.1	D	D	D
	Clinton Keith Rd. Loop On-Ramp	3	1	430	494	452	27.6	23.0	26.2	C	C	C
	Clinton Keith Rd. Slip On-Ramp	3	1	597	583	582	30.8	25.8	29.1	D	C	D
I-215 Northbound	Clinton Keith Rd. Off-Ramp	3	1	895	1,201	995	23.4	34.7	30.6	C	D	D
	Clinton Keith Rd. Loop On-Ramp	3	1	918	697	605	19.3	26.9	23.2	B	C	C
	Clinton Keith Rd. Slip On-Ramp	3	1	267	346	373	19.3	28.1	24.9	B	D	C

[1] Existing number of lanes.

[2] Density is measured by passenger cars per lane (pc/mi/ln)

[3] Density and level of service calculated using the following analysis software: HCS2010, Version 6.65

TABLE 5-8

BASIC FREEWAY SEGMENT ANALYSIS FOR EXISTING PLUS AMBIENT PLUS CUMULATIVE (2021) CONDITIONS

Freeway	Ramp Location	Lanes on Freeway[1]	Freeway Volumes			Density[2]			Level of Service[3]		
			Weekday		Sat	Weekday		Sat	Weekday		Sat
			AM	PM	MD	AM	PM	MD	AM	PM	MD
I-215 Southbound	North of Clinton Keith Rd.	3	5,015	4,518	5,017	29.7	24.6	28.3	D	C	D
	South of Clinton Keith Rd.	3	5,079	4,271	4,917	30.3	23.0	27.5	D	C	D
I-215 Northbound	South of Clinton Keith Rd.	3	2,852	5,013	4,222	15.2	28.5	22.8	B	D	C
	North of Clinton Keith Rd.	3	3,142	4,855	4,205	16.8	28.0	22.7	B	D	C

[1] Density is measured by passenger cars per lane (pc/mi/ln)

[2] Density and level of service calculated using the following analysis software: HCS2010, Version 6.65

TABLE 5-9

INTERSECTION ANALYSIS FOR
EXISTING PLUS AMBIENT PLUS PROJECT PLUS CUMULATIVE (2021) CONDITIONS

ID	Intersection	Traffic Control [1]	Intersection Approach Lanes [2]												Delay [3] (secs.)						Level of Service [3]					
			Northbound			Southbound			Eastbound			Westbound			With Full Project			Sensitivity Analysis (Reduced Project Land Use)			With Full Project			Sensitivity Analysis (Reduced Project Land Use)		
			L	T	R	L	T	R	L	T	R	L	T	R	Weekday AM	Weekday PM	Sat MD	Weekday AM	Weekday PM	Sat MD	Weekday AM	Weekday PM	Sat MD	Weekday AM	Weekday PM	Sat MD
1	McElwain Rd. / Clinton Keith Rd.	TS	1	1	0	2	1	0	2	3	1	1	3	1>	14.8	40.0	24.7	14.9	39.9	24.7	B	D	C	B	D	C
2	I-215 SB Ramps / Clinton Keith Rd.	TS	0	0	0	0	1	2	0	3	1	0	3	1>>	12.5	15.4	10.6	12.5	15.2	9.9	B	B	B	B	B	A
3	I-215 NB Ramps / Clinton Keith Rd.	TS	1	0	1	0	0	0	0	3	1>>	0	3	1>>	37.5	16.9	14.1	36.5	16.2	14.1	D	B	B	D	B	B
4	Creighton Ave. / Clinton Keith Rd.																									
	- With revised coordination plan	TS	1	1	0	1	1	0	1	3	1	1	3	1	44.3	31.9	54.0	41.8	20.5	49.8	D	C	D	D	C	D
	- With 2nd EBL turn lane to accommodate potential excess in storage queue	TS	1	1	0	1	1	0	2	3	1	1	3	1	44.2	26.4	53.6	-	-	-	D	C	D	-	-	-
5	Whitewood Rd. / Clinton Keith Rd. [4]																									
	- With revised coordination plan	TS	1	*2*	0	1	2	0	2	*2*	1	*2*	*3*	*1*	45.5	77.0	58.0	42.7	72.1	54.5	D	E	E	D	E	D
6	Vista Murrieta HS W. Dwy. / Clinton Keith Rd.	TS	2	1	1	2	1	2>	2	3	0	1	3	1	10.8	20.2	31.9	10.8	19.9	32.0	B	C	C	B	B	C
7	Bronco Wy. / Clinton Keith Rd.																									
	- With revised coordination plan	TS	2	1	0	1	1	0	1	3	d	**2**	3	1	43.8	29.5	30.4	43.6	29.1	30.0	D	C	C	D	C	C
8	Antelope Rd. / Baxter Rd.	TS	0	1	1	1	1	0	0	0	0	1	0	1	29.6	28.1	-	29.6	28.5	-	C	C	-	C	C	-

[1] TS = Traffic Signal; CSS = Cross Street Stop

[2] When a right turn is designated, the lane can either be striped or unstriped. To function as a right turn lane there must be sufficient width for right turning vehicles to travel outside the through lanes.

L = Left; T = Through; R = Right; 1! = Shared Left-Through-Right Lane; 0.5 = Shared Lane ; d = Defacto right turn lane; > = Right Turn Overlap; >> = Free Right Turn Lane

1 = Recently built in 2018 after counts were taken; **1** = Lane Improvement; **1** = With additional improvement in comparison to EAC conditions to provide adequate queueing storage

[3] Delay and level of service calculated using the following analysis software: Synchro Software

[4] The City's General Plan has identified this intersection to be deficient and accepts LOS E as an acceptable performance criteria.

needed to mitigate potential queuing issues at Creighton Avenue / Clinton Keith Road (#4) and Bronco Way / Clinton Keith Road (#7):

Creighton Ave. / Clinton Keith Road (#4)

- Lengthen the EB left turn pocket by 50 feet to provide 300 feet of stacking distance.

Bronco Way / Clinton Keith Road (#7)

- Provide a 2nd WB left turn lane.

Warm Springs Pkwy./Clinton Keith Rd. (#6) – The eastbound left turn pocket is anticipated to experience during the Saturday peak conditions with the proposed improvement measures.

Signal coordination and detailed queuing evaluation has also been included in this traffic study report for all intersections under EAPC (2021) conditions. Table 5-10 summarizes the 95th percentile for the EAPC (2021) with intersection improvements queuing analysis. The queuing analysis worksheets are also included in Appendix "M".

As indicated in the queueing analysis, the eastbound left turn volumes at the intersection of Creighton/Clinton Keith Road is anticipated to exceed the stacking length on a Saturday peak hour. A 2nd eastbound left turn lane (300') would accommodate the anticipated queuing and fully mitigate the stacking impacts of the Curci project since it would provide 600 feet of queuing. A supplemental sensitivity analysis has been performed to determine what measures would be required to accommodate the anticipated queuing of a single eastbound left turn lane. The restriction of the Costco traffic through the Creighton intersection along with the following project land uses can be developed to allow this intersection to accommodate the single eastbound left turn lane:

- 5,000 sf Tire Store
- 3,000 sf High Turnover (Sit-Down) Restaurant
- 5,000 sf Drive-in Bank

Furthermore, based on the analysis, it appears that the Whitewood/Clinton Keith intersection will have excessive queuing on the northbound and southbound left turn movements. The project will be responsible for designing, furnishing and installing the proposed lengthening of the turn pockets. Since the lengthening of the turn pockets will not accommodate the forecasted queues, a statement of overriding considerations will be required.

Table 5-11 provides a summary of the EAPC (2021) conditions roadway segment

TABLE 5-10

QUEUEING ANALYSIS SUMMARY FOR
EXISTING PLUS AMBIENT PLUS PROJECT PLUS CUMULATIVE (2021) WITH INTERSECTION IMPROVEMENTS

ID	Intersection	Turning Movement Lane	Storage Length Provided[2] (feet)	95th Percentile Queue Length Per Lane (feet)[1]					
				With Full Project			Sensitivity Analysis (Reduced Project Land Use)		
				Weekday		Saturday	Weekday		Saturday
				AM	PM	MD	AM	PM	MD
1	McElwain / Clinton Keith Rd.								
		EBL	**300**	189	264	239	189	303 [3]	239
		EBR	100	0	0	0	0	0	0
		WBL	200	6	39	0	6	39	0
		WBR	160	31	59	157	30	57	145
		NBL	50	20	56 [3]	34	20	56 [3]	34
		SBL	**350**	226	317	369 [3]	222	312	363
2	I-215 SB Ramps / Clinton Keith Rd.								
		EBR	400	23	65	147	24	49	55
		WBR	150	10	0	0	9	0	0
		SBR	>1000	296	396	185	292	395	185
3	I-215 NB Ramps / Clinton Keith Rd.								
		NBL	960	163	826	695	163	787	690
		NBR	960	587	752	615	550	734	557
4	Creighton Ave. / Clinton Keith Rd.								
		EBL	**300**	205	257	**546**	106	95	276
		EBR	200	47	2	0	48	3	1
		WBL	230	55	64	13	53	66	14
		WBR	150	19	77	161 [3]	4	51	108
		NBL	200	224 [3]	83	101	218 [3]	83	91
		SBL	**245**	92	***309***	***525***	34	217	***381***
	- With Additional 2nd EBL turn improvement								
		EBL (2x)	**300**	101	97	178	-	-	-
5	Whitewood Rd. / Clinton Keith Rd.								
		EBL	**525**	238	547 [3]	358	231	532 [3]	346
		EBR	250	52	162	79	51	152	71
		WBL	200	52	99	106	52	99	106
		WBR	200	1	14	0	1	14	0
		NBL	**420**	434 [3]	***609*** [4]	**493**	406	***579*** [4]	**448**
		SBL	**100**	**212**	**208**	**180**	**212**	**208**	**180**
6	Warm Springs Pkwy. - Vista Murrieta HS West Dwy. / Clinton Keith Rd.								
		EBL	**600**	190	555	***732***	189	571	***731***
		WBL	**150**	22	2	0	22	2	0
		WBR	**240**	50	2	0	53	2	0
		NBL	**100**	21	3	0	21	3	0
		NBR	**390**	0	0	0	0	0	0
		SBL	**350**	83	243	275	83	243	275
		SBR	**350**	30	138	152	29	138	152
7	Bronco Wy. / Clinton Keith Rd.								
		EBL	200	31	139	183	31	140	181
		WBL	315	***492***	308	74	***482***	308	38
		WBR	85	0	9	56	0	9	74
		NBL	355	195	84	53	195	84	53
		SBL	**150**	42	154 [3]	***206***	42	154 [3]	***206***
	- With 2nd WBL turn improvement								
		WBL (2x)	315	31	139	183	31	139	181
8	Antelope Rd. / Baxter Rd.								
		WBL	WBL	164	133	-	164	133	-
		WBR	520	37	44	-	37	44	-
		NBR	50	52 [3]	46	-	49	46	-
		SBL	150	174 [3]	113	-	174 [3]	113	-

[1] Queue length calculated using Synchro 8
BOLD = exceeds storage lane

[2] Existing/Proposed pocket length storage (for turning movements) or link distance (for through movements). 100 = Existing; **100** = Proposed
100 = Recommended

[3] 95th percentile queue is anticipated to exceed available storage length. However, the excess queue length can be accommodated within the transition lane.

[4] It should be noted that a school access located along Whitewood Road is approximately 480 ft. south of Clinton Keith Road and extending the NBL turn lane at Clinton Keith Road over 420 ft. is not feasible. Therefore, the 95th percentile queue for the NBL is is anticipated to continue to exceed available storage length.

capacity analysis. As shown on Table 5-11, the study area roadway segments are anticipated to continue to operate within LOS “C” capacity thresholds.

Tables 5-12 and 5-13 summarize the freeway ramp analysis for I-215 at the Clinton Keith Road Interchange. As shown on Tables 5-12 and 5-13, the freeway ramps and basic freeway segments analyzed for this study were found to operate at an acceptable LOS (LOS “D” or better) during the peak hours. The EAPC ramp analysis worksheets are provided in Appendix "N". The basic freeway segment analysis worksheets for EAPC conditions are included in Appendix “O”.

TABLE 5-11

ROADWAY SEGMENT ANALYSIS FOR EXISTING PLUS AMBIENT PLUS PROJECT PLUS CUMULATIVE (2021) CONDITIONS

Roadway	Segment Limits	General Plan Roadway Classification	Through Travel Lanes[1]	Roadway Capacity and LOS Criteria[2] (Maximum 2-Way ADT)		EAPC Conditions					
						Weekday			Saturday		
				LOS C	LOS E	ADT	V/C[3]	LOS	ADT	V/C[3]	LOS
Clinton Keith Rd.	west of Creighton Av.	Urban Arterial	6	43,100	53,900	43,782	0.81	D	43,672	0.81	D
	east of Creighton Av.	Urban Arterial	6	43,100	53,900	42,452	0.79	C	42,342	0.79	C

[1] 1 = Existing number of through lanes

[2] Source: City of Murrieta Daily Roadway Capacity Values

[3] V/C = ADT / LOS E Roadway Capacity

TABLE 5-12

FREEWAY RAMP ANALYSIS FOR
EXISTING PLUS AMBIENT PLUS PROJECT PLUS CUMULATIVE (2021) CONDITIONS

Freeway	Ramp Location	Lanes on Freeway[1]	Lanes on Ramp[1]	Ramp Volumes			Density[2]			Level of Service[3]		
				Weekday		Sat	Weekday		Sat	Weekday		Sat
				AM	PM	MD	AM	PM	MD	AM	PM	MD
I-215 Southbound	Clinton Keith Rd. Off-Ramp	3	1	989	1,354	1,187	34.6	32.5	34.4	D	D	D
	Clinton Keith Rd. Loop On-Ramp	3	1	458	533	520	27.8	23.3	26.7	C	C	C
	Clinton Keith Rd. Slip On-Ramp	3	1	597	583	582	30.9	26.0	29.4	D	C	D
I-215 Northbound	Clinton Keith Rd. Off-Ramp	3	1	929	1,241	1,065	23.7	34.9	30.9	C	D	D
	Clinton Keith Rd. Loop On-Ramp	3	1	918	697	605	19.3	26.9	23.0	B	C	C
	Clinton Keith Rd. Slip On-Ramp	3	1	288	376	424	19.5	28.4	25.1	B	D	C

[1] Existing number of lanes.

[2] Density is measured by passenger cars per lane (pc/mi/ln)

[3] Density and level of service calculated using the following analysis software: HCS2010, Version 6.65

TABLE 5-13

BASIC FREEWAY SEGMENT ANALYSIS FOR
EXISTING PLUS AMBIENT PLUS PROJECT PLUS CUMULATIVE (2021) CONDITIONS

Freeway	Ramp Location	Lanes on Freeway[1]	Freeway Volumes			Density[2]			Level of Service[3]		
			Weekday		Sat	Weekday		Sat	Weekday		Sat
			AM	PM	MD	AM	PM	MD	AM	PM	MD
I-215 Southbound	North of Clinton Keith Rd.	3	5,041	4,548	5,070	30.0	24.8	28.7	D	C	D
	South of Clinton Keith Rd.	3	5,107	4,310	4,985	30.6	23.2	28.0	D	C	D
I-215 Northbound	South of Clinton Keith Rd.	3	2,886	5,053	4,292	15.4	28.8	23.2	B	D	C
	North of Clinton Keith Rd.	3	3,163	4,885	4,256	16.9	28.2	23.0	B	D	C

[1] Density is measured by passenger cars per lane (pc/mi/ln)

[2] Density and level of service calculated using the following analysis software: HCS2010, Version 6.65

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6.0 FINDINGS AND RECOMMENDATIONS

This section of the report summarizes the project impacts for each scenario analyzed. Physical and funding recommendations are provided to address the project-related impacts. The scenarios evaluated include:

- **Existing Conditions**
- **Existing + Ambient + Project (2021)**
- **Existing + Ambient + Cumulative (2021)**
- **Existing + Ambient + Project + Cumulative (2021)**

A. Traffic Impacts and Level of Service Analysis

1. Existing Conditions

For Existing traffic conditions, the study area intersections, roadway segments, freeway ramps, and freeway segments are currently operating at an acceptable level of service during the peak hours with the existing geometry and traffic controls.

2. Existing + Ambient + Project (2021) Conditions

For EAP traffic conditions, the study area intersections, roadway segments, freeway ramps, and freeway segments are operating at an acceptable level of service during the peak hours with the following planned improvements:

Creighton Avenue / Clinton Keith Road (#4)

- Modify existing northbound (NB) right turn lane to a shared through right lane.
- Construct one southbound (SB) left turn lane and one SB shared through right lane.
- Construct one westbound (WB) right turn lane.
- Install a "no right turn on red" signage for the SB approach.

In addition, improvements at the Whitewood Road / Clinton Keith Road were recently constructed. Therefore, the following configuration is shown as built for future conditions:

Whitewood Road / Clinton Keith Road (#5)

- NB Approach: one left turn lane, one through lane, and one shared through/right lane.
- SB Approach: one left turn lane, one through lane, and one shared through/right lane.

- EB approach: two left turn lanes, two through lanes, and one right turn lane.
- WB approach: two left turn lanes, three through lanes, and right turn lane.

3. Existing + Ambient + Cumulative (2021) Conditions

For EAC conditions, the intersection of Whitewood Road / Clinton Keith Road is anticipated to operate at LOS E during the PM peak hour conditions. It should be noted however that the City's General Plan has projected this intersection to be deficient and accepts LOS E as an acceptable performance for Whitewood / Clinton Keith Road (#5) intersection. The remaining study area intersections are operating at an acceptable of level of service (LOS "D" or better) during the peak hours with the following planned improvements, in addition to the improvements identified under EAP conditions:

Warm Springs Parkway – Vista Murrieta HS W. Driveway / Clinton Keith Road (#6)

- Install Traffic Signal
- Provide a SB right turn overlap phase
- Restrict eastbound U-Turns
- NB Approach: provide two left turn lanes, one through lane, and maintain existing right turn lane.
- SB Approach: construct two left turn lanes, one through lane, and two right turn lanes.
- EB Approach: provide two left turn lanes, and maintain existing 3 through lanes.
- WB Approach: provide one left turn lane, one right turn lane, and maintain existing 3 through lanes.

It should be noted that under these conditions, the eastbound left turn pocket will experience excessive queues during the Saturday peak period.

Bronco Way / Clinton Keith Road (#7)

- Modify existing NB right turn lane to provide one shared through/right lane.
- Construct one SB left turn lane and one SB shared through/right lane.
- Provide one WB right turn lane.

It should be noted that both improvements are anticipated to be constructed in conjunction with the development of nearby cumulative projects (Costco & Vineyard Shopping Center).

The EAC conditions, for the roadway segments, freeway ramps, and freeway segments are anticipated to continue to operate at an acceptable level of service during the peak hours.

4. Existing Plus Ambient Plus Project Plus Cumulative (E+A+P+C) (2021) Conditions

For EAPC conditions, the intersection of Whitewood Road / Clinton Keith Road is anticipated to continue to operate at LOS E during the PM peak hour conditions. As mentioned previously, the City's General Plan accepts LOS E as an acceptable performance for Whitewood / Clinton Keith Road (#5) intersection. The remaining study area intersections are operating at an acceptable of level of service (LOS "D" or better) during the peak hours with the planned improvements identified previously under EAC conditions. However, the following additional improvements are needed to mitigate potential queuing issues:

Bronco Way / Clinton Keith Road (#7)

- Provide a 2nd WB left turn lane.

It should be noted that excessive queues are anticipated to occur on-site for the southbound approach. However, since the queues are on private property, no improvements have been recommended.

Queueing analysis results for EAPC conditions indicate that the following turn movements are anticipated to exceed available storage lane capacities:

Whitewood Road / Clinton Keith Rd. (#5)

- NB left turn *(AM & PM peak hours)*
- SB left turn *(AM & PM peak hours)*

Warm Springs Pkwy./Clinton Keith Rd. (#6)

- EB left turn (Sat peak hour)

It should be noted that the City Council has adopted overriding considerations in the current General Plan for the intersection of Whitewood Road/Clinton Keith Road. Based on the queuing analysis, it appears that the Whitewood/Clinton Keith intersection will have excessive queuing on the northbound and southbound left turn movements. The project will be responsible for designing, furnishing and installing the proposed lengthening of the turn pockets. Since the lengthening of the turn pockets will not accommodate the forecasts queues, a statement of overriding considerations will be required. The project will be required to contribute a fair share amount to the City's CIP 8389 for the improvements to this intersection.

For the intersection of Creighton Avenue/Clinton Keith Road (#4), the eastbound left turn volumes are anticipated to exceed the stacking length on a Saturday peak hour. A 2nd eastbound left turn lane (300') would accommodate the anticipated queuing and fully mitigate the stacking impacts of the Curci project since it would provide 600 feet of queuing. A supplemental sensitivity analysis has been performed to determine what measures would be required to accommodate the anticipated queuing of a single eastbound left turn lane. The restriction of the Costco traffic through the Creighton intersection along with the following project land uses can be developed to allow this intersection to accommodate the single eastbound left turn lane:

- 5,000 sf Tire Store
- 3,000 sf High Turnover (Sit-Down) Restaurant
- 5,000 sf Drive-in Bank

Based on the supplemental analysis, lengthening the EB left turn pocket by 50 feet to provide 300 feet of stacking distance at the intersection of Creighton Ave. / Clinton Keith Road (#5) is anticipated to provide adequate storage length during Weekday and Saturday conditions. The Project will be responsible to design, fund, and install the second eastbound left turn lane at this intersection and a fair share cost to be paid by adjacent development (Murrieta Costco) towards this improvement if/when they are granted access through this intersection.

It should be noted that excessive queues are anticipated to occur on-site for the southbound approach. However, since the queues are on private property, no improvements have been recommended.

The EAPC conditions, for the roadway segments, freeway ramps, and freeway segments are anticipated to continue to operate at an acceptable level of service during the peak hours.

B. Circulation Recommendations

1. On-Site

Construction of on-site improvements shall occur in conjunction with adjacent project development activity or as needed for project access purposes. The recommended on-site roadway improvements are described below.

- On-site traffic signing and striping should be implemented in conjunction with detailed construction plans for the project.
- Verify that minimum sight distance is provided at the project access points.

Appendix J1

Master Sewer Study

Technical Memorandum

Master Sewer Capacity Study for:

The Vineyard, Curci, Costco, and Candee Commercial Developments

Prepared For

Randy Weisser
CK-17, LP, A California Limited Partnership
27890 Clinton Keith Road
Murrieta, CA 92562

Prepared By:
Excel Engineering
440 State Place
Escondido CA 92029

Date: 11/26/2018
Revised: 5/28/2019
Revised: 7/24/2019
Revised: 8/12/2019
Revised: 4/02/2020

Prepared Under My Supervision

Robert D. Dentino



Purpose of Study

The purpose of this study is to determine the effect the new commercial developments in Sewer Tributary Area B and south to Clinton Keith Road, on the existing sewer infrastructure in Clinton Keith Road, Murrieta California. Four new commercial developments identified as Costco, Candee, Curci, and The Vineyard, are proposed on the north side of Clinton Keith Road just east of Interstate I-215. The study calculates total sewage generation from existing developments in Sewer Tributary Area B and south to Clinton Keith Road. Total sewage generation is calculated to an existing 15-in sewer main in Whitewood Road south of Clinton Keith Road. This study builds on calculations performed by Albert A. Webb Associates, to analyze sewer generation, in Sewer Tributary Area B. This study will supersede a study of The Vineyard site prepared by Excel Engineer dated 10/24/2017. The proposed development areas addressed by this study are depicted in the Sewer Tributary Map, Area B and south to Clinton Keith Road included in this study.

This study also examines the effect these commercial developments will have on the existing sewer improvements in Clinton Keith Road. A hydraulic analysis of the existing sewer in Clinton Keith Road from Creighton Road to Whitewood is reported here.

Finally, these commercial developments are proposing the construction of Warm Springs Parkway from Clinton Keith Road to the north property line on Costco and Candee developments. The proposed improvements include public sewer to serve these developments. This study supports the design of the proposed public sewer facilities in Warm Springs Parkway.

Webb Study

On May 20, 2014, Albert A. Webb Associates, herein after referred to in this report as the Webb Study, prepared calculations to analyze sewer generation for current and future development in Sewer Tributary B. A map, prepared by the Webb Study, shows the tributary area, acreage, boundaries, and land use designations. All references, areas and land use designations used for this study are taken from the map in the Webb Study. The Webb Study is included as an attachment to this study.

The Webb Study assumes 3 phases of development and summarizes sewer generation in three separate tables. Table 1 shows sewer generation by the existing developments present at the time of study. Table 1 concludes the capacity of the existing 15-in sewer in Whitewood exceeds predicted sewer flows. Table 2 shows sewer generation from the existing development and some future developments. While Table 2 included some future developments, The Vineyard and the multi-family developments on the south side of Clinton Keith Road, west of the school property, are not included in the calculations. Table 2 concludes the capacity of the existing 15-in sewer in Whitewood exceeds sewer flows. Table 3 includes all the development shown in table 2, and adds the remaining properties, to build-out of the tributary area. Table 3 includes The Vineyards and the other commercially zoned properties in the area. Table 3 concludes that at, build-out, sewer capacity of the 15-in main is exceeded and a parallel main is required.

This study adds to Table 2. The Vineyard, Costco, the Curci development the Candee development and the multi-family residential development to the southwest of CK-17 identified as property number 25 are now included in calculations.

Methodology

This study follows similar methodology used for the Webb Study. Sewer generation is based on guidelines provided Eastern Municipal Water District 2006 Master Plan Update. Land use designations, areas, and boundaries are taken from the tributary map provided in the Webb Study. A foot note on tables 1, 2, and 3 establishes that the existing 15-in sewer main in Whitewood Road has a capacity, D/d=0.75 of 2.392 cfs.

The hydraulic analysis uses Manning's equation to determine normal depths based on flows generated in Table 2.1.

It should be noted that the invert for manhole number 1 at the intersection of Clinton Keith Road appears with differ from sub-table to the next in Table 2.1. The differing inverts reflects the difference a from as-builts and fielded topo performed by Excel Engineering. This difference will not affect the flow analysis results which is the purpose of Table 2.1.

Results and Conclusions

Data from Table 2 from the Webb Study, plus The Vineyards the additional commercial developments, and the multi-family development, are shown in Table 2.1. Total sewage generation at the connection point in Whitewood Road is calculated to be 2.212 cfs. With the capacity of the existing 15-in sewer in Whitewood Road known to be 2.392 cfs, the addition of four commercial developments to the tributary area will not require additional downstream sewer capacity.

The results of the hydraulic analysis of the sewer in Clinton Keith Road and the proposed sewer in Warm Springs Parkway, indicate that the existing and proposed improvements have enough capacity. Results from the analysis are shown in Table 2.2. The Sewer Capacity Exhibit, prepared for this study, is a graphic representation of the data analyzed in Table 2.2. The exhibit depicts sewer reaches, manholes and overall sewer layout for the sewer in Clinton Keith Road and proposed sewer in Warm Springs Parkway and can be found as an attachment to this report. The hydraulic analysis for the proposed sewer includes all future upstream development and confirms the proposed 8" pipe in Warms Springs Parkway is sufficient.

It should be noted that the system was analyzed assuming a worst-case condition. All effluent from area 22A-2 is assumed to drain to Warm Springs Parkway, when in fact some properties sewer through the east driveway, tying to a proposed 8" sewer main in Clinton Keith Road. This study also assumes that effluent for area 22B sewers to the east by a private system in the Vineyard development. Both developments are controlled by the same entity and property agreements will be in place prior to construction.

The proposed sewer in Warm Springs Parkway was analyzed to serve the entire commercial area draining to Clinton Keith Road, identified on the Sewer Tributary Map as areas 22A-1, 22A-2, 22B, 22C, and 22D. The high point or northerly limits of the tributary area was established by a master alignment and profile study, of Warm Springs Parkway, adopted by the City of Murrieta. The hydraulic analysis confirms that an 8" sewer main will provide sufficient capacity for this tributary area.

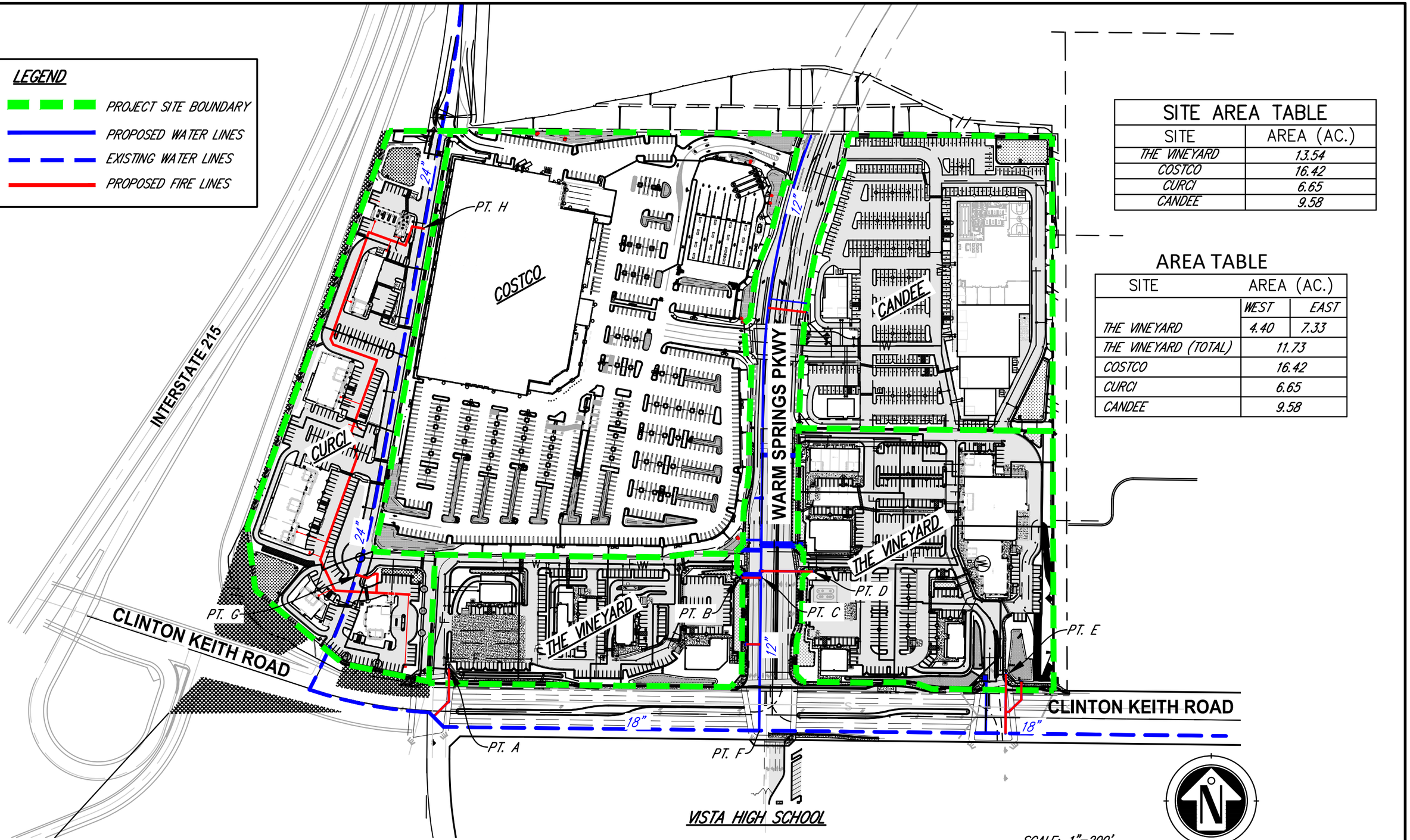
ATTACHMENTS

Sewer Tributary Map
Figure 1: Sewer System Analysis for The Vineyard, Curci, Costco, & Candee Project.
Table 2.1 Sewer Generation Along Whitewood Road
Table 2.2 Hydraulic Sewer Analysis, Warm Springs Parkway & Clinton Keith Road
Sewer Capacity Exhibit, Sheets 1 & 2
Webb Technical Memorandum
Sewer and Water Plans for The Vineyard
Murrieta Clinton Keith Road Sewer and Water Plans
Warm Springs Parkway Master Alignments and Profiles Study

V: |16|16063|Documents|EMWD Plan of Service|Sewer Study Costco, Curci, Candee|16-063-Sewer-Study-Exhbit.dwg 4/2/2020 3:13 PM ORIGINAL PLOT SIZE: PDF 11X17

LEGEND

- PROJECT SITE BOUNDARY
- PROPOSED WATER LINES
- EXISTING WATER LINES
- PROPOSED FIRE LINES



SITE AREA TABLE	
SITE	AREA (AC.)
THE VINEYARD	13.54
COSTCO	16.42
CURCI	6.65
CANDEE	9.58

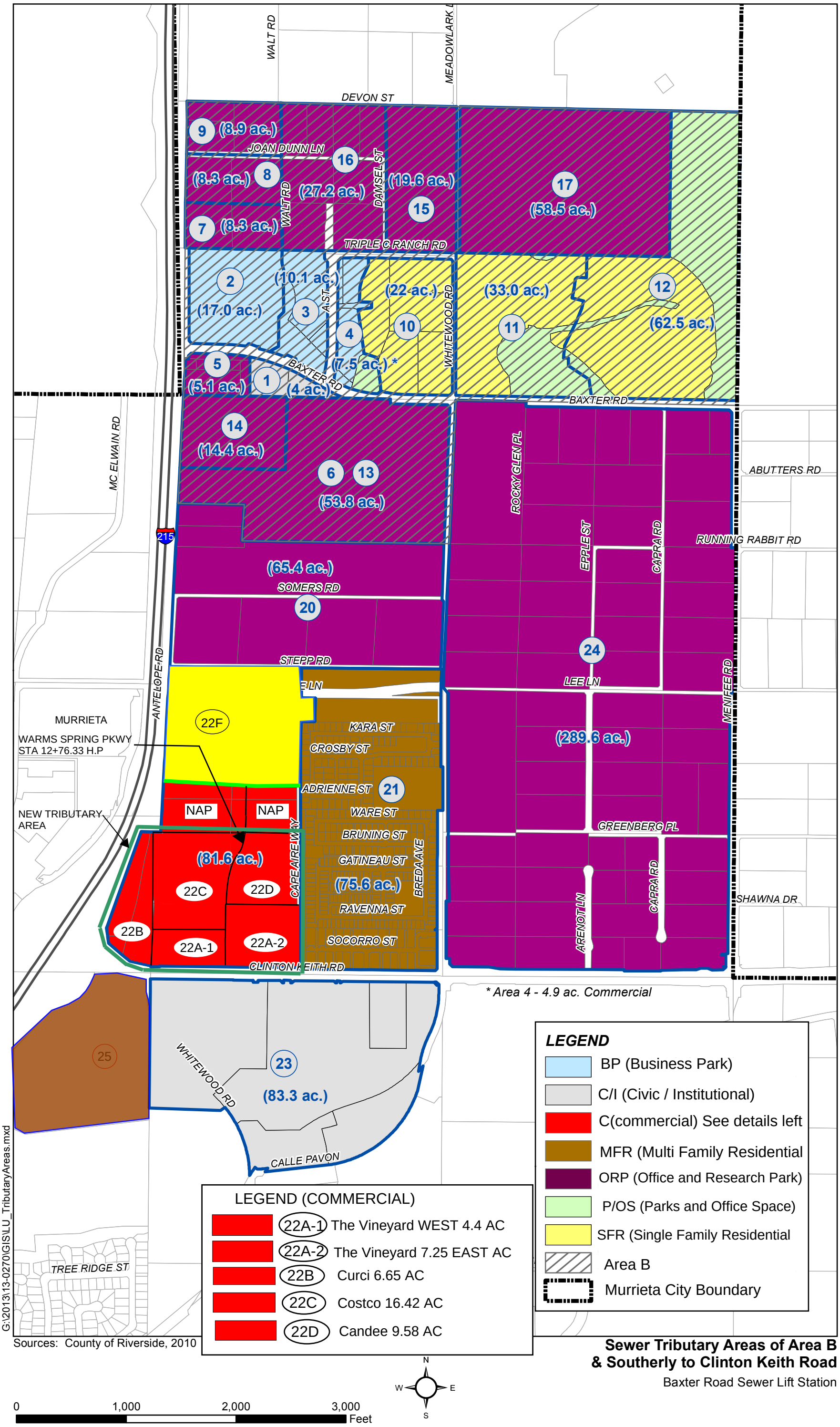
AREA TABLE

SITE	AREA (AC.)	
	WEST	EAST
THE VINEYARD	4.40	7.33
THE VINEYARD (TOTAL)	11.73	
COSTCO	16.42	
CURCI	6.65	
CANDEE	9.58	

SCALE: 1"=200'

0 200 400 600 800

FIGURE 1 – WATER SYSTEMS ANALYSIS FOR THE VINEYARD, CURCI, COSTCO & CANDEE PROJECTS



Sewer Tributary Areas of Area B & Southerly to Clinton Keith Road

Baxter Road Sewer Lift Station

Table 2.1 Sewer Generation Along Whitewood Road

	Land Use Designation	Area or Sizing Criteria	EDU	Average Day Unit Generation	Flow Rate Per EDU (gpd/EDU)	Average Day Generation (gpd)	Average Day Generation (mgpd)	Cumulative Average Day Generation (gpd)	Pop.	Culuative Population	Peak Factor	Peak Flow (gpd)	Peak Flow (gpm)	Peak Flow (cfs)
7	2nd MOB	160,000 Sq. Ft.	67	0.42 EDU /1,000 Sq. Ft.	265	17,755	0.018	17,755	235	235	2.8	49,714	34.524	0.077
8	3rd MOB	160,000 Sq. Ft.	67	0.42 EDU /1,000 Sq. Ft.	265	17,755	0.018	35,510	235	470	2.8	49,714	34.524	0.077
9	Two MOB	79,400 Sq. Ft.	33	0.42 EDU /1,000 Sq. Ft.	265	8,745	0.009	44,255	116	586	2.8	24,486	17.004	0.038
			167			**44,255**	**0.044**		**586**	**586**	**2.8**	123,914	86.051	0.192
	Upstream		167			44,255	0.044	44,255	586	586	2.8	123,914	86.051	0.192
1	Fire Station	10 employees	4	0.41 EDU /employee	265	1,060	0.001	45,315	14	600	2.8	2,968	2.061	0.005
2	Hospital	203 beds	145	250 gpd / bed	265	38,425	0.038	83,740	508	1108	2.8	107,590	74.715	0.166
3	1st MOB	160,000 Sq. Ft.	67	0.42 EDU /1,000 Sq. Ft.	265	17,755	0.018	101,495	235	1343	2.8	49,714	34.524	0.077
4	Commercial (Sun-Cal-two sites east of New Antelope Road)	4.9 AC	24	1700 gpd / AC	265	6,360	0.006	107,855	83	1426	2.8	17,808	12.367	0.028
10	Tract 28532-1	22 AC	82		265	21,730	0.022	129,585	287	1713	2.8	60,844	42.253	0.094
			489			**129,585**	**0.130**		**1,713**		**2.75**	356,359	247.471	0.551
11	Tract 28532-2	33 AC	90		265	23,850	0.024	23,850	378	378	2.8	66,780	46.375	0.103
12	Tract 28532-4	62.5 AC	126		265	33,390	0.033	57,240	529	907	2.8	93,492	64.925	0.145
	Totals: Baxter Lift Station		**216**			**57,240**	**0.057**		**907**		**2.8**	160,272	111.300	0.248
	Upstream Gravity		489			129,585	0.130	129,585	1,713	1713	2.75	356,359	247.471	0.551
21	Mediun Density Residential		335		265	88,775	0.089	88,775	1,173	2886	2.8	248,570	172.618	0.385
21	High Density		144		265	38,160	0.038	126,935	360	3246	2.8	106,848	74.200	0.165
22A-1	Commerical/ The Vinyard (West)	4.4		1700 gpd / AC	265	7,480	0.007	134,415			2.8	20,944	14.544	0.032
22A-2	Commerical/ The Vinyard (East)	7.25		1700 gpd / AC	265	12,325	0.012	146,740			2.8	34,510	23.965	0.053
22B	Curci	6.652		1700 gpd / AC	265	11,308	0.011	145,723			2.8	31,664	21.989	0.049
22C	Costco	16.42		1700 gpd / AC	265	27,914	0.028	173,637			2.8	78,159	54.277	0.121
22D	Candee	9.584		1700 gpd / AC	265	16,293	0.016	189,930			2.8	45,620	31.680	0.071
23	Vista High School	3,323 students	190	20 gpd/student	265	66,460	0.066	200,875	665	665	2.8	186,088	129.228	0.288
25	High Density Residential	36.14	400	2400 gpd/AC	165	66,000	0.066	211,723			2.8	184,800	128.333	0.286
	Totals: Clinton Keith Road Gravity		**1558**			**464,300**	**0.464**		**3,911**		**2.7**	1,253,611	870.563	1.940
	Totals: Clinton Keith Road plus Baxter Lift Station		**1774**			**521,540**	**0.522**		**4,818**		**2.63**	**1,371,651**	952.535	2.122

Note: information used to produce this table was obtained from Technical Memorandum- Analysis of Whitewood Sewer Southerly of Clinton Keith Road. Prepared by Albert A. Webb Associates, May 20,2014; Eastern Municpal Water District 2006 Mater Plan Update; and calulations performed by Excel Engineering.

Existing 15-in sewer line at the intersection of Clinton Keith Road and Whitewood Road has a capacity of 2.392 cfs, based on a slope of 0.0022 ft./ft., n=0.015, d/D=0.75.

Table 2.2 Hydraulic Sewer Analysis-Warm Springs Road Clinton Keith Road

Sewer Generation for Proposed Sewer Main Warm Springs Road

GPD by Area No.

Area	Avg Day
22A-1	7480
22A-2	12325
22B	11308
22C	27914
22D	16293

- Data from Table 2.1

Warm Springs Parkway

Manhole No.	Sta (ft)	IE (ft)	Length (ft)	Slope (ft/ft)	Pipe dia. (D) (in)	n	Additional Contributing Areas	Total Flow Contributing (gpd)	Peak Factor	Peak Flow (gpd)	Peak Flow (cfs)	Q (full) (cfs)	Area (full) (sf)	V (full) (fps)	Normal flow Depth (d) (in)	V (fps)	d/D	d/D less than 0.5?	v(fps) > 2 fps?
6**	13+95.37	1514.12																	
5**	12+21.20	1512.60	159.66	0.0095	8	0.015	22C & 22D	44207	2.80	123780	0.19	1.02	0.349	2.91	0.15	2.01	0.019	TRUE	TRUE
4**	9+03.30	1509.66	309.66	0.0095	8	0.015	-	44207	2.80	123780	0.19	1.01	0.349	2.91	0.15	2.01	0.019	TRUE	TRUE
3**	7+30.00	1507.82	193.17	0.0095	8	0.015		44207	2.80	123780	0.19	1.02	0.349	2.91	0.15	2.01	0.019	TRUE	TRUE
2**	4+48.64	1505.71	281.36	0.0075	8	0.015	22B, 22C, 22D, 22A-1, & 22A-2	75320	2.80	210896	0.33	0.90	0.349	2.58	0.22	2.26	0.028	TRUE	TRUE
1**	1+24.54	1503.28***	325.64	0.0075	8	0.015	-	84133	2.80	235572	0.36	0.90	0.349	2.58	0.22	2.26	0.028	TRUE	TRUE

**Public Water & Sewer Plan For: The Vineyard, City of Murrieta

***Invert established by field topo

GPD by Area No.

Area	Avg Day
21	88775
21	38160
22A-1, 22B, 22C, 22D	62995
22A-2	12325
23	66460
25	66000

- Data from Table 2.1

Clinton Keith Road, DWG: D-45890

Manhole No.	Sta (ft)	IE (ft)	Length (ft)	Slope (ft/ft)	Pipe dia. (D) (in)	n	Additional Contributing Areas	Total Flow Contributing (gpd)	Peak Factor	Peak Flow (gpd)	Peak Flow (cfs)	Q (full) (cfs)	Area (full) (sf)	V (full) (fps)	Normal flow Depth (d) (in)	V (fps)	d/D	d/D less than 0.5?	v(fps) > 2 fps?
2*	210+66.29	1510.57																	
3*	214+00.00	1507.49	333.71	0.0092	12	0.015	23 & 25	132460	2.76	365590	0.57	2.95	0.785	3.76	3.96	2.35	0.33	TRUE	TRUE
4*	217+50.00	1503.90	350	0.0103	12	0.015	23 & 25	132460	2.76	365590	0.57	3.11	0.785	3.96	4.32	2.50	0.36	TRUE	TRUE
1**(WSP)	218+02.80	1503.36	53.82	0.0100	12	0.015	22A-1, 22A-2, 22B, 22C, 22D	207780	2.72	565162	0.87	3.08	0.785	3.92	4.32	2.50	0.36	TRUE	TRUE
5*	222+30.00	1499.11	426.18	0.0100	12	0.015	-	207780	2.76	573473	0.89	3.07	0.785	3.91	4.08	2.70	0.34	TRUE	TRUE
1**(DWY)	222+97.93	1498.84	67.64	0.0040	12	0.015	-	207780	2.72	565162	0.87	1.94	0.785	2.47	4.08	2.70	0.34	TRUE	TRUE
6*	227+30.00	1497.11	432.36	0.0040	12	0.015	21	334715	2.68	897036	1.39	1.94	0.785	2.48	4.68	4.18	0.39	TRUE	TRUE
7*	232+30.00	1490.90	500	0.0124	12	0.015	-	334715	2.68	897036	1.39	3.43	0.785	4.36	5.28	3.48	0.44	TRUE	TRUE
8*	236+31.27	1475.35	401.27	0.0388	12	0.015	-	334715	2.68	897036	1.39	6.05	0.785	7.70	5.40	3.37	0.45	TRUE	TRUE
9*	237+19.88	1470.97	91.8	0.0477	12	0.015	-	334715	2.68	897036	1.39	6.71	0.785	8.55	3.84	5.52	0.32	TRUE	TRUE

*See Eastern Municipal Water District, City of Murrieta Pacific Landing Apartments Sewer and Water Improvements

SEWER CAPACITY EXHIBIT

SEE SHEET 2

WARM SPRINGS PARKWAY

MH #2

MH #3

MH #4

MH #1 (WSP)

8" PVC SEWER

12" PVC SEWER

12" PVC SEWER

12" PVC SEWER

L=333.71' S=0.0092

L=297.30' S=0.0103

L=52.71' S=0.0100

L=412.07' S=0.0100

L=67.93' S=0.0040

210+00 211+00 212+00 213+00 214+00 215+00 216+00 217+00 218+00 219+00 220+00 221+00 222+00 223+00 224+00

CLINTON KEITH ROAD

MH #5

MH #1 EAST DWY

CRETGHTON ROAD

CONTINUED SEE BELOW LEFT

SCALE: 1" = 100'

0 100 200 300

CONTINUED SEE ABOVE RIGHT

MH #6

MH #7

MH #8

MH #9

12" PVC SEWER

12" PVC SEWER

L=500.00' S=0.0040

L=500.00' S=0.0124

L=401.27' S=0.0388

L=91.80' S=0.0477

224+00 225+00 226+00 227+00 228+00 229+00 230+00 231+00 232+00 233+00 234+00 235+00 236+00 237+00

CLINTON KEITH ROAD

WHITEWOOD ROAD

V:|16|16063|Documents|EMWD Plan of Service|Sewer Study Costco, Curci, Candee|Sewer Capacity Exhibit|Sewer Capacity Exhibit-Sht-1.dwg 8/9/2019 3:37 PM ORIGINAL
PLOT SIZE: ----

SEWER CAPACITY EXHIBIT

SHEET 2 OF 2

MH #6

MH #5

MH #4

MH #3

MH #2

MH #1

L=159.66' S=0.0095

L=309.66' S=0.0095

L=173.75 S=0.0095

L=281.36' S=0.0075

L=325.64' S=0.0075

L=52.70'

L=412.07'

L=67.93'

8" PVC SEWER

12" PVC SEWER

WARM SPRINGS PARKWAY

WARM SPRINGS PARKWAY

CLINTON KEITH ROAD

SEE SHEET 1

SCALE: 1" = 100'

0 100 200 300

V: | 16 | 16063 | Documents | EMWD Plan of Service | Sewer Study Costco, Curci; Candee | Sewer Capacity Exhibit | Sewer Capacity Exhibit-Sht-2.dwg 8/9/2019 4:25 PM ORIGINAL
PLOT SIZE: ----

ALBERT A. WEBB ASSOCIATES

Technical Memorandum

Analysis of Whitewood Sewer Southerly of Clinton Keith Road

Prepared for Fred Azimie
Civil Engineering Associate II
New Business Development
Eastern Municipal Water District

May 20, 2014

1.0 INTRODUCTION

Webb Associates prepared a plan of service for Tract 28532-2, -3, -4 and -5. The plan of service contemplated a proposed 12-inch diameter sewer in Whitewood Road, south of Clinton Keith Road paralleling an existing 15-in diameter sewer for approximately 1,400 l.f. to convey the sewage generated by existing and proposed development. This was based on an analysis previously prepared by EMWD staff. Based on discussions regarding the proposed parallel sewer, capacity may be available in the existing 15-in sewer gravity main to serve Tracts 28532-2 and -4. Webb was asked to analyze the existing, interim and ultimate condition for this portion of sewer.

2.0 AREA OF BENEFIT

The attached map shows the tributary area for the existing 15-in sewer in Whitewood Road south of Clinton Keith Road.

Area 24 is generally down grade from Whitewood Road. Therefore, we assumed that all sewage flows from all of area 24 would be pumped by a future lift station. This is the most conservative assumption for downstream sewer capacity. Area 17 is assumed to have zero sewer generation based on open space and grades which make it difficult to sewer via gravity southerly to Whitewood Road.

3.0 SEWER GENERATION

Sewage generation from each planning area was determined. Based on our understanding of the development status and future land use of the tributary area, the following additional conditions were analyzed

- Existing Condition (Table 1)
- Interim Condition w/ future MOB's, Tract 28532-1 and Tracts 28532-2 and -4 (Table 2)
- Ultimate Condition (Table 3)

3.1 Existing Condition

The existing condition is based on EMWD's sewer altas maps and aerial photographs of the existing development. The capacity of the existing 15-inch sewer is estimated at 2.392 cfs based on a slope= 0.0022, n=0.015 and a maximum allowable of d/D ratio = 0.75. The existing condition has a peak flow of 0.958 cfs, well within the capacity of the existing 15-inch sewer.

3.2 Interim Condition w/ future MOB's, Tract 28532-1 and Tracts 28532-2 and -4

This interim condition is based on the existing condition plus flows from future MOB's, approved Tract 28532-1 and proposed Tracts 28532-2 and -4 via the Baxter Road Lift Station. This condition has a peak flow of 1.57 cfs, well within the capacity of the existing 15-inch sewer.

3.3 Ultimate Condition

The ultimate condition is based on the all flows from the areas as shown in the tributary area. This condition has a peak flow of 4.945 cfs, well above the capacity of the 15-inch sewer. No analysis was done downstream of this point. The ultimate condition is based on the City of Murrieta's land use and is subject to change when specific projects are submitted.

4.0 CONCLUSION

The capacity of the existing 15-inch sewer gravity main can handle the additional peak sewage flows from Tract 28532-2 and 28532-4 pumped by the Baxter Road Lift Station. The condition of requiring a parallel or up-sized sewer gravity main in Whitewood Road south of Clinton Keith Road can be deferred to later development.

Sincerely,

Bradley Sackett, P.E.
Senior Engineer

Sewer Tributary Areas for Area B and Southerly to Clinton Keith Road

Table 1 – Existing Condition
Table 2 – Interim Condition w/ future MOB's, Tract 28532-1 and Tracts 28532-2 and -4
Table 3 – Ultimate Condition

TABLE 1 – Sewer Generation Along Whitewood Road

Tributary Area to the Clinton Keith Road and Whitewood Road under existing development

	Land Use Designation	Sizing Criteria	Density (Du/Acre)	EDU [2]	Average Day Unit Generation	Flow Rate per EDU [1] (gpd/EDU)	Average Day Generation (gpd)	Cumm. Avg. Day Generation (gpd)	Peaking Factor: Population (pop)	Peaking Factor: Cumm. Population	Peaking Factor: Peak Factor	Wastewater Generation: Peak Flow (gpd)	Wastewater Generation: Peak Flow (gpm)	Wastewater Generation: Peak Flow (cfs)
[3]														
1	Fire Station (Existing)	10 employes		4	0.41 EDU/employee	350	1,400	1,400	14	14	2.50	3,500	2.43	0.005
2	Hospital (Existing)	203 beds		145	250 gpd/bed	350	50,750	52,150	508	522	2.50	126,875	88.11	0.196
3	1st MOB (Existing)	160,000 Sq. Ft.		67	0.42 EDU/1,000 Sq.Ft.	350	23,450	75,600	235	756	2.50	58,625	40.71	0.091
	Totals for BAXTER ROAD WEST			**216**			**75,600**		**756**		**2.32**	**175,392**	**121.80**	**0.271**
	Upstream via gravity			216			75,600	75,600	756	756	2.32	175,392	121.80	0.271
21	Medium High Density Residential			335		350	117,250	192,850	1,173	1,929	2.50	293,125	203.56	0.454
21	High Density			144		200	28,800	221,650	360	2,289	2.50	72,000	50.00	0.111
23	Vista Murrieta High School	3,323 students		190	20 gpd/student	350	66,460	288,110	665	2,953	2.50	166,150	115.38	0.257
	Totals for CLINTON KEITH ROAD via Gravity only			**885**			**288,110**		**2,953**		**2.15**	**619,437**	**430.16**	**0.958**

(1) Based on EMWD Sanytary Sewer System Planning & Design (Revised 09-01-06) as follows:
Medium Density Residential (3.5 Pop/EDU) = 100 gpd/capita
High Density Residential (2.5 Pop/EDU) = 80 gpd/capita

(2) Rounded to the Nearest Fraction

(3) Sewer Tributary Area (See Figure 1-1)

*: the sewer generation was provided by others and based on 195 fixture units

**: Increased by 1.2 times for discharge rate per Lift Station design standard

Existing 15 in sewer line has a capacity of 2.392 cfs based on slope = 0.0022, n = 0.015 and d/D = 0.75.

TABLE 2 – Sewer Generation Along Whitewood Road

Tributary Area to the Clinton Keith Road and Whitewood Road under existing development, future MOB's and proposed Golden City Development

	Land Use Designation	Sizing Criteria	Density (Du/Acre)	EDU [2]	Average Day Unit Generation	Flow Rate per EDU [1] (gpd/EDU)	Average Day Generation (gpd)	Cumm. Avg. Day Generation (gpd)	Peaking Factor: Population (pop)	Peaking Factor: Cumm. Population	Peaking Factor: Peak Factor	Wastewater Generation: Peak Flow (gpd)	Wastewater Generation: Peak Flow (gpm)	Wastewater Generation: Peak Flow (cfs)
[3]														
7	2nd MOB (Future)	160,000 Sq. Ft.		67	0.42 EDU/1,000 Sq.Ft.	350	23,450	23,450	235	235	2.50	58,625	40.71	0.091
8	3rd MOB (Future)	160,000 Sq. Ft.		67	0.42 EDU/1,000 Sq.Ft.	350	23,450	46,900	235	469	2.50	58,625	40.71	0.091
9	Two MOB's (future north of Joan Dunn Ln)*	79,400 Sq. Ft.		33	0.42 EDU/1,000 Sq.Ft.	350	11,550	58,450	116	585	2.50	28,875	20.05	0.045
	Totals for TRIPLE "C" RANCH			**167**			**58,450**		**585**		**2.50**	**146,125**	**101.48**	**0.226**
	Upstream			167			58,450	58,450	585	585	2.50	146,125	101.48	0.226
1	Fire Station (Existing)	10 employes		4	0.41 EDU/employee	350	1,400	59,850	14	599	2.50	3,500	2.43	0.005
2	Hospital (Existing)	203 beds		145	250 gpd/bed	350	50,750	110,600	508	1,106	2.50	126,875	88.11	0.196
3	1st MOB (Existing)	160,000 Sq. Ft.		67	0.42 EDU/1,000 Sq.Ft.	350	23,450	134,050	235	1,341	2.50	58,625	40.71	0.091
4	Commercial (Sun-Cal - two sites east of New Antelope Rd)	4.9 acre		24	1700 gpd/acre	350	8,330	142,380	83	1,424	2.50	20,825	14.46	0.032
10	Tract 28532-1	22 acre		82		350	28,700	171,080	287	1,711	2.50	71,750	49.83	0.111
	Totals for BAXTER RD/WHITEWOOD RD Gravity only			**489**			**171,080**		**1,711**		**2.32**	**396,906**	**275.63**	**0.614**
11	Tract 28532-2**	33 acre		90		350	37,800	37,800	378	378	2.50	94,500	65.63	0.146
12	Tract 28532-4**	62.5 acre		126		350	52,920	90,720	529	907	2.50	132,300	91.88	0.205
	Totals for BAXTER ROAD SEWER LIFT STATION			**216**			**90,720**		**907**		**2.50**	**226,800**	**157.50**	**0.351**
	Upstream via gravity			489			171,080	171,080	1,711	1,711	2.32	396,906	275.63	0.614
21	Medium High Density Residential			335		350	117,250	288,330	1,173	2,883	2.50	293,125	203.56	0.454
21	High Density			144		200	28,800	317,130	360	3,243	2.50	72,000	50.00	0.111
23	Vista Murrieta High School	3,323 students		190	20 gpd/student	350	66,460	383,590	665	3,908	2.50	166,150	115.38	0.257
	Totals for CLINTON KEITH ROAD via Gravity only			**1,158**			**383,590**		**3,908**		**2.06**	**790,195**	**548.75**	**1.223**
	Totals for CLINTON KEITH ROAD plus Lift Station			**1,374**			**474,310**		**4,815**			**1,016,995**	**706.25**	**1.574**

(1) Based on EMWD Sanytary Sewer System Planning & Design (Revised 09-01-06) as follows:
Medium Density Residential (3.5 Pop/EDU) = 100 gpd/capita
High Density Residential (2.5 Pop/EDU) = 80 gpd/capita

(2) Rounded to the Nearest Fraction

(3) Sewer Tributary Area (See Figure 1-1)

*: the sewer generation was provided by others and based on 195 fixture units

**: Increased by 1.2 times for discharge rate per Lift Station design standard

Existing 15-in sewer line has a capacity of 2.392 cfs based on slope = 0.0022, n = 0.015 and d/D = 0.75.

TABLE 3 – Sewer Generation Along Whitewood Road

Tributary Area to the Clinton Keith Road and Whitewood Road under Ultimate Conditions

	Land Use Designation	Sizing Criteria	Density (Du/Acre)	EDU [2]	Average Day Unit Generation	Flow Rate per EDU [1] (gpd/EDU)	Average Day Generation (gpd)	Cumm. Avg. Day Generation (gpd)	Peaking Factor: Population (pop)	Peaking Factor: Cumm. Population	Peaking Factor: Peak Factor	Wastewater Generation: Peak Flow (gpd)	Wastewater Generation: Peak Flow (gpm)	Wastewater Generation: Peak Flow (cfs)
[3]														
7	2nd MOB (Future)	160,000 Sq. Ft.		67	0.42 EDU/1,000 Sq.Ft.	350	23,450	23,450	235	235	2.50	58,625	40.71	0.091
8	3rd MOB (Future)	160,000 Sq. Ft.		67	0.42 EDU/1,000 Sq.Ft.	350	23,450	46,900	235	469	2.50	58,625	40.71	0.091
9	Two MOB's (future north of Joan Dunn Ln)*	79,400 Sq. Ft.		33	0.42 EDU/1,000 Sq.Ft.	350	11,550	58,450	116	585	2.50	28,875	20.05	0.045
15	Area 2 (70 Lot Parcel R-1)	19.6 acre	3.55	70	1700 gpd/acre	350	24,500	82,950	245	830	2.50	61,250	42.53	0.095
16	Area 3 (77 Lot Parcel R-1)	27.4 acre	2.80	77	1700 gpd/acre	350	26,950	109,900	270	1,099	2.50	67,375	46.79	0.104
17	Portion Section 26, Open Space	58.5 acre						0			2.50	0	0.00	0.000
	Totals for TRIPLE "C" RANCH			**314**			**109,900**		**1,099**		**2.48**	**272,552**	**189.27**	**0.422**
	Upstream			314			109,900	109,900	1,099	1,099	2.47	271,453	188.51	0.420
1	Fire Station (Existing)	10 employes		4	0.41 EDU/employee	350	1,400	111,300	14	1,113	2.50	3,500	2.43	0.005
2	Hospital (Existing)	203 beds		145	250 gpd/bed	350	50,750	162,050	508	1,621	2.50	126,875	88.11	0.196
3	1st MOB (Proposed)	160,000 Sq. Ft.		67	0.42 EDU/1,000 Sq.Ft.	350	23,450	185,500	235	1,855	2.50	58,625	40.71	0.091
4	Commercial (Sun-Cal - two sites east of New Antelope Rd)	4.9 acre		24	1700 gpd/acre	350	8,330	193,830	83	1,938	2.50	20,825	14.46	0.032
5	Business Park (The McGrath property and the City property south of Baxter)	5.1 acre		25	1700 gpd/acre	350	8,670	202,500	87	2,025	2.50	21,675	15.05	0.034
10	Tract 28532-1	22 acre		82		350	28,700	231,200	287	2,312	2.50	71,750	49.83	0.111
	Totals for BAXTER RD/WHITEWOOD RD Gravity only			**661**			**231,200**		**2,312**		**2.22**	**513,264**	**356.43**	**0.794**
11	Tract 28532-2**	33 acre		90		350	37,800	37,800	378	378	2.50	94,500	65.63	0.146
12	Tract 28532-4**	62.5 acre		126		350	52,920	90,720	529	907	2.50	132,300	91.88	0.205
	Totals for BAXTER ROAD SEWER LIFT STATION			**216**			**90,720**		**907**		**2.50**	**226,800**	**157.50**	**0.351**
	Upstream			661			231,200	231,200	2,312	2,312	2.13	492,456	341.98	0.762
6, 13	Antelope Meadowlark 56	53.8 acre	3.00	168		350	58,800	261,300	588	2,900	2.50	147,000	102.08	0.227
14	Area 1 (Business Park)	14.4 acre		63	1700 gpd/acre	350	24,480	285,780	245	3,145	2.50	61,200	42.50	0.095
	AREA B			**892**			**314,480**		**3,145**		**2.05**	**644,684**	**447.70**	**0.998**
	Upstream			892			314,480	314,480	3,145	3,145	2.05	644,684	447.70	0.998
21	Medium High Density Residential			335		350	117,250	431,730	1,173	4,317	2.50	293,125	203.56	0.454
21	Medium High Density Residential (Not developed)	12.2 acre	6	73.2		350	25,620	457,350	256	4,574	2.50	64,050	44.48	0.099
21	High Density			144		200	28,800	486,150	360	4,934	2.50	72,000	50.00	0.111
22	Commercial	82.9 acre		403	1700 gpd/acre	350	140,930	627,080	1,409	6,343	2.50	352,325	244.67	0.545
20	Office and Research Park	69 acre		335	1700 gpd/acre	350	117,300	744,380	1,173	7,516	2.50	293,250	203.65	0.454
23	Vista Murrieta High School	3,323 students		190	20 gpd/student	350	66,460	810,840	665	8,180	2.50	166,150	115.38	0.257
	Totals for CLINTON KEITH ROAD via Gravity only			**2,371**			**810,840**		**7,516**		**1.84**	**1,491,946**	**1,036.07**	**2.309**
	CLINTON KEITH ROAD plus BAXTER RD SEWER LIFT STATION			**2,587**			**901,560**		**8,423**			**1,718,746**	**1,193.57**	**2.659**
24	Lift Station for Office and Research Park**	289.6 acre		1,688	1700 gpd/acre	350	590,784	590,784	5,908	5,908	2.50	1,476,960	1025.67	2.285
	ULTIMATE AT CLINTON KEITH ROAD			**4,275**			**1,492,344**		**14,331**			**3,195,706**	**2,219.24**	**4.945**

(1) Based on EMWD Sanytary Sewer System Planning & Design (Revised 09-01-06) as follows:
Medium Density Residential (3.5 Pop/EDU) = 100 gpd/capita
High Density Residential (2.5 Pop/EDU) = 80 gpd/capita

(2) Rounded to the Nearest Fraction

(3) Sewer Tributary Area (See Attached Figure)

*: the sewer generation was provided by others and based on 195 fixture units

**: Increased by 1.2 times for discharge rate per Lift Station design standard

Existing 15-in sewer line has a capacity of 2.392 cfs based on slope = 0.0022, n = 0.015 and d/D = 0.75.

At 2.659 cfs, d/D= 0.84 in existing 15-in sewer.

PUBLIC WATER & SEWER PLANS FOR:
THE VINEYARD (TMP NO. 36493)
CITY OF MURRIETA

EMWD WATER NOTES

USE ONLY THOSE NOTES AND STANDARDS DETERMINED APPROPRIATE BY EMWD.

DETAILED REQUIREMENTS:

(LIST ON WATERLINE LAYOUT FOR SUBDIVISION IMPROVEMENTS AND ON FRONT SHEET OF THE CONSTRUCTION PLANS WHERE THEY ARE NOT THE SAME).

1. WATER PIPELINE AND APPURTENANT CONSTRUCTION SHALL BE IN ACCORDANCE WITH EMWD STANDARDS AND SPECIFICATIONS.

2. PRIOR TO CONSTRUCTION OF PIPELINE, CONTRACTOR SHALL EXPOSE EXISTING WATER SYSTEM AND VERIFY ITS EXISTING ELEVATION AND LOCATION.

3. WHERE SEWERS HAVE BEEN CONSTRUCTED BY AGENCIES OTHER THAT EMWD, CONTRACTOR SHALL VERIFY SEWER LATERAL LOCATIONS PRIOR TO EXCAVATION FOR WATER PIPELINE. IN THE EVENT SEWER LATERALS ARE FOUND TO BE AT A DEPTH LESS THAN IN ACCORDANCE WITH EMWD SEWER STANDARDS, (FOR CITY OF HEMET, REFER TO CITY OF HEMET STD. NO. 201) WATER PIPELINE CONTRACTOR SHALL ADJUST WATER PIPELINE DEPTH AS DIRECTED BY THE ENGINEER TO CROSS OVER THE SEWER LATERAL IF POSSIBLE, TO PROVIDE 36" MINIMUM COVER TO FINISH ROAD GRADE; OTHERWISE, CROSS UNDER THE LATERAL, WHICH REQUIRES SPECIAL CONSTRUCTION.

4. ALL SERVICE CONNECTIONS SHALL BE 1" SERVICES X 1" METERS, UNLESS OTHERWISE NOTED; AND SHALL BE LOCATED AS SHOWN ON THE PLANS AND ADJUSTED AS NECESSARY TO MISS DRIVEWAYS. WATER SERVICE ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH STD. DWG. B-590A, TYPE (A,B,C) ADJOINING LOT METER BOXES SHALL BE PLACED TOGETHER AT PROPERTY LINE.

5. AIR VALVE ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH STD. DWG. B- 598 TYPE B, UNLESS OTHERWISE NOTED.

6. WATER SYSTEM PROFILE ELEVATIONS ARE TO CENTERLINE (CENTER GRADE) OF PIPE.

7. APPROVED REDUCTION PRESSURE BACKFLOW PREVENTION DEVICE (B-587, TYPE A, B, C) REQUIRED FOR ALL INDUSTRIAL, COMMERCIAL, APARTMENT COMPLEXES AND LANDSCAPE SERVICES.

8. INSTALL LOCATOR WIRE OVER WATER MAIN PER STD. DWG. B-656.

9. FIRE HYDRANT ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH STD. DWG. B-517.

10. BLOW -OFF ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH STD. DWG. B-357.

11. TEMPORARY BLOW-OFF ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH STD. DWG. B-568.

12. ALL PVC PIPE THROUGH 12 INCH SHALL BE TYPE C-900, DR 18, EXCEPT WHERE NOTED OTHERWISE. PIPE SHALL CONFORM TO AWWA SPECIFICATIONS. 18 INCH AND LARGER SHOULD BE C-905, CLASS 235.

13. FITTINGS FOR PVC PIPE SHALL BE DUCTILE OR GRAY IRON. FITTINGS SHALL BE FLANGED, BOLTED MECHANICAL JOINTS, OR PUSH-ON JOINTS, AND SHALL BE CEMENT MORTAR LINED AND TAR (SEAL) COATED PER EMWD STANDARDS AND SPECIFICATIONS.

14. ALL DUCTILE OR GRAY IRON FITTINGS SHALL BE POLYETHYLENE ENCASED AT THE TIME OF INSTALLATION PER EMWD STANDARDS AND SPECIFICATIONS.

15. A JOINT RESTRAINT DEVICE SHALL BE USED ON ALL MAIN LINE PIPE JOINTS WITHIN SPECIFIED LIMITS AND ALL JOINTS OR WATER APPURTENANCE LATERALS OFF MAIN LINE, PER EMWD STD. DWG. B-663.

EMWD SEWER NOTES

1. SEWER SYSTEM CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH EMWD'S STANDARDS AND SPECIFICATIONS.

2. GRAVITY SEWER PROFILE ELEVATIONS ARE TO FLOW LINE (CONDUIT INVERT). FORCE MAIN PROFILE ELEVATIONS ARE TO CENTIGRADE (C.G.).

3. CONTRACTOR HAS THE OPTION TO INSTALL PLASTIC OR VCP SEWERS EXCEPT WHERE SPECIFICALLY DESIGNATED ON PLANS PER EMWD STANDARDS AND SPECIFICATIONS.

4. MANHOLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DRAWINGS SB- 53, SB-58 AND SB-61, AS APPLICABLE. SEWER MAINS MAY BE LAID THROUGH THE MANHOLES AND USED AS A FORM FOR THE INVERT.

5. MANHOLES OF DEPTHS LESS THAN FIVE FEET FROM FINISH STREET GRADE TO SEWER PIPE SHELF ARE TO BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DRAWING SB- 30.

6. ALL PRIVATE LATERALS SHALL HAVE A PRIVATE ON-SITE CLEANOUT IN ACCORDANCE WITH STANDARD DRAWINGS SB-52. IN ADDITION, FOR PRIVATE LATERALS SERVING INDUSTRIAL AND/OR COMMERCIAL DEVELOPMENTS, THE REQUIREMENTS FOR SAMPLING AND/OR PRETREATMENT FACILITIES SHALL BE DETERMINED BY CONTACTING EMWD'S SOURCE SOURCE CONTROL DIVISION AT (951) 928-3777, EXT. 6203.

EMWD SEWER NOTES CONT.

7. MAINLINE CLEANOUTS, WHERE CALLED FOR ON THE PLANS, SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DRAWING SB-52.

8. PRIOR TO CONSTRUCTION OF SEWER, CONTRACTOR SHALL EXPOSE EXISTING SEWER AND VERIFY ITS EXISTING ELEVATION AND LOCATION. WHERE CONNECTING TO EXISTING MANHOLES AND INLET STUB OF PROPER SIZE EXISTS, NO ALTERATIONS SHALL BE MADE TO EXISTING MANHOLE BASE OR STUB EXCEPT AS SPECIFICALLY AUTHORIZED BY EMWD.

9. ALL SEWER INLETS AT THE MANHOLE SHALL BE SUCH THAT ITS CROWN SHALL BE LEVEL WITH THE CROWN OF THE OUTLET PIPE, AT THEIR PROJECTIONS TO THE MANHOLE CENTERLINE.

10. RECONSTRUCTION OF EXISTING MANHOLES SHALL BE SCHEDULED AT THE CONVENIENCE OF EMWD AND SHALL BE COMPLETED WITHIN FIVE WORKING DAYS FOLLOWING ITS COMMENCEMENT.

11. PRIVATE SEWER LATERALS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SB-177. LOCATIONS OF WYES AND PRIVATE LATERALS, WHERE NOT SHOWN ON THE PLANS, ARE TO BE DETERMINED IN THE FIELD PRIOR TO CONSTRUCTION TO MISS DRIVEWAYS. ALL PRIVATE LATERALS ARE TO BE 4" IN DIAMETER UNLESS OTHERWISE SHOWN ON PLANS. CONNECTIONS OF NEW PRIVATE LATERALS TO EXISTING SEWER ARE TO BE PER STANDARD DRAWING SB-176.

12. THE CONTRACTOR IS ADVISED THAT THE WORK ON THIS PROJECT MAY INVOLVE WORKING IN A CONFINED AIR SPACE. CONTRACTOR SHALL BE RESPONSIBLE FOR "CONFINED AIR SPACE", ARTICLE 108, TITLE 8, CALIFORNIA ADMINISTRATIVE CODE.

13. WHERE GROUNDWATER IS ENCOUNTERED, ALL VCP PIPE SHALL BE TREATED FOR ABSORPTION RESISTANCE PER EMWD'S SPECIFICATIONS.

14. BACKWATER VALVES SHALL BE INSTALLED PER SECTION 710.1 OF THE UNIFORM PLUMBING CODE.

15. ALL PIPE ZONE BEDDING & TRENCH BACKFILL ARE TO BE PER STANDARD DRAWING SB-157, SB-158 AND SB-159.

LEGAL DESCRIPTION

THE LAND REFERRED TO IN THIS SURVEY IS IN THE STATE OF CALIFORNIA, COUNTY OF RIVERSIDE, CITY OF MURRIETA AND IS DESCRIBED AS FOLLOWS:

PARCEL 3 OF PARCEL MAP NO. 8231, AS SHOWN BY PARCEL MAP ON FILE IN BOOK 55, PAGE 53, OF PARCEL MAPS, RECORDS OF RIVERSIDE COUNTY, CALIFORNIA;

EXCEPTING THEREFROM THAT PORTION AS CONVEYED TO THE COUNTY OF RIVERSIDE BY GRANT DEED RECORDED JULY 17, 2007 AS INSTRUMENT NO. 2007-0463772 OF OFFICIAL RECORDS.

ASSESSOR'S PARCEL NUMBER

392-290-051

ZONING

EXISTING: COMMUNITY COMMERCIAL (CC)
PROPOSED: COMMUNITY COMMERCIAL (CC)
GENERAL PLAN DESIGNATION: COMMUNITY COMMERCIAL (CC)

BOUNDARY

DIMENSIONS SHOWN HEREON ARE BASED ON FIELD SURVEY PERFORMED BY EXCEL ENGINEERING ON JULY 14, 2006.

SCHOOL DISTRICT

MENIFEE UNION SCHOOL DISTRICT – (951) 672-1851

UTILITIES

ELECTRIC – SOUTHERN CALIFORNIA EDISON – (951) 928-8272
GAS – SOUTHERN CALIFORNIA GAS – (951) 304-0093
TELEPHONE – VERIZON – (951) 929-9490
WATER & SEWER – EASTERN MUNICIPAL WATER DISTRICT – (800) 426-3693

SOURCE OF TOPOGRAPHY

EXISTING TOPOGRAPHY SHOWN HEREON IS A COMBINATION OF AERIAL TOPOGRAPHY PROVIDED BY ANALYTICAL PHOTOGRAMMETRIC SURVEYS, INC. (FLOWN ON AUGUST 28, 2008) AND SUPPLEMENTAL FIELD DATA SURVEYS CONDUCTED BY EXCEL ENGINEERING.

BASIS OF BEARINGS

THE BASIS OF BEARINGS FOR THIS SURVEY IS THE RIVERSIDE COUNTY REAL TIME NETWORK USING CALIFORNIA COORDINATE SYSTEM 83, ZONE 6, NAD 83, EPOCH 2010, AS DETERMINED LOCALLY BY A LINE BETWEEN CONTINUOUS OPERATING REFERENCE STATIONS (CORS) BILL AND P474, BEING: S35°10'15.13"W AS DERIVED FROM GEODETIC VALUES PUBLISHED BY THE CALIFORNIA SPATIAL REFERENCE CENTER (CSRC) AND NATIONAL GEODETIC SURVEY (NGS), RESPECTIVELY AND MEETS ALL THE REQUIREMENTS OF THE CALIFORNIA PUBLIC RESOURCES CODE.

BENCHMARK

THE BENCHMARK FOR THIS SITE IS A RIVERSIDE COUNTY DESIGNATION 600-20-68. A BRASS DISK, STAMPED 600-20-68 IN CONCRETE POST. 0.2 MILES SOUTH ON WASHINGTON AVE FROM THE POST OFFICE IN MURRIETA, 2.4 MILES EAST ON LOS ALAMOS ROAD, 4.8 MILES NORTH ON HWY. 395, 0.1 MILES WEST ON SCOTT ROAD, 78 FEET SOUTHEAST OF POWER POLE #312098-S, 60 FEET SOUTH OF SCOTT ROAD, 4 FEET NORTHWEST OF THE NORTHEAST CORNER OF A PUMP HOUSE, 2 FEET WEST OF A MARKER POST.

SEWER CERTIFICATION

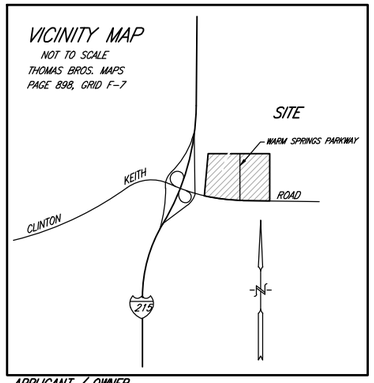
I CERTIFY THAT THE DESIGN OF THE SEWER SYSTEM IN TPM NO. 36493 IS IN ACCORDANCE WITH THE EASTERN MUNICIPAL WATER DISTRICT'S SEWER SYSTEM MASTER PLAN, AND THE DISTRICT HAS PROGRAMMED ADEQUATE CAPACITY TO TREAT WASTES FROM THE PROPOSED TRACT.

EASTERN MUNICIPAL WATER DISTRICT

BY: _____
CIVIL ENGINEER OF SUBDIVISIONS DATE

VICINITY MAP

NOT TO SCALE
THOMAS BROS. MAPS
PAGE 898, GRID F-7



INDEX SHEET

SHEET 1–TITLE
SHEET 2–KEY MAP; PLAN AND PROFILE
SHEET 3 & 4–PLAN AND PROFILE

APPLICANT / OWNER

CK 17, L.P., A CALIFORNIA LIMITED PARTNERSHIP
BY: BETA CK, INC. A CALIFORNIA CORPORATION, ITS GENERAL PARTNER
41623 MARGARITA ROAD #100
TEMECULA, CA 92591
TEL: (951) 491-6300
FAX: (951) 491-6330
PRESIDENT: FRED D. GRIMES

OWNER CERTIFICATE

I HEREBY CERTIFY THAT I AM THE RECORD OWNER OF THE PROPERTY SHOWN ON THIS TENTATIVE PARCEL MAP AND THAT SAID MAP SHOWS MY ENTIRE CONTIGUOUS OWNERSHIP. I UNDERSTAND THAT PROPERTY IS CONSIDERED CONTIGUOUS EVEN IF IT SEPARATED BY ROADS, STREETS, UTILITY EASEMENTS OR RAILROAD RIGHTS OF WAY.

_____ _____
FRED D. GRIMES, ITS PRESIDENT DATE

WATER CERTIFICATION

I CERTIFY THAT THE DESIGN OF THE WATER SYSTEM IN TRACT NO. 36493 ACCORDANCE WITH THE WATER SYSTEM EXPANSION PLANS OF THE EASTERN MUNICIPAL WATER DISTRICT, AND THAT THE WATER SERVICE, STORAGE AND DISTRIBUTION SYSTEM WILL BE ADEQUATE TO PROVIDE WATER TO SUCH TRACT. THIS CERTIFICATION DOES NOT CONSTITUTE A GUARANTEE THAT IT WILL SUPPLY WATER TO SUCH TRACT AT ANY SPECIFIC QUANTITIES, FLOWS OR PRESSURE FOR FIRE PROTECTION OR ANY OTHER PURPOSE.

EASTERN MUNICIPAL WATER DISTRICT

BY: _____
CIVIL ENGINEER OF SUBDIVISION DATE:

TIME LIMITATIONS

THE TIME LIMIT ON DRAWING(S) APPROVAL SHALL BE SIX (6) MONTHS FROM THE DATE ON THE CERTIFICATION. IF CONSTRUCTION HAS NOT COMMENCED WITHIN STATED TIME, EMWD REQUIRES DRAWING(S) TO BE REVIEWED BY THE DEVELOPER/DESIGN ENGINEER AND RESUBMITTED TO EMWD FOR POSSIBLE CHANGES IN MASTER PLANNED SIZING AND CHANGES IN SPECIFICATIONS AND STANDARDS.

DECLARATION OF RESPONSIBLE CHARGE

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE. AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATION BY THE EASTERN MUNICIPAL WATER DISTRICT IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

ENGINEER COMPANY NAME: EXCEL ENGINEERING
ADDRESS: 440 STATE PLACE, ESCONDIDO, CA 92029
PHONE NO.: 760-745-8118
FAX NO.: 760-745-1890

Mar 28, 2019
_____ DATE
ROBERT D. DENTINO
RCE NO. 45929 EXP. DATE 12-31-18

CONSTRUCTION LEGEND / WORK TO BE DONE

THE IMPROVEMENTS CONSIST OF THE FOLLOWING ITEMS IN ACCORDANCE WITH THE LATEST EDITION OF THE FOLLOWING DOCUMENTS, AND THESE PLANS.

1) COM – CITY OF MURRIETA STANDARD DRAWINGS DATED DECEMBER 1, 1998
2) EASTERN MUNICIPAL WATER DISTRICT'S STANDARD SPECIFICATIONS AND DRAWINGS
3) CALTRANS – STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD DRAWINGS
4) THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION ("GREEN BOOK")
ANY CHANGES OR REVISIONS THEREFROM SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO ANY INSPECTIONS

ITEM	DESCRIPTION	STANDARD DRAWING OR SPECIFICATION	QUANTITY
WATERLINE IMPROVEMENTS (PUBLIC)			
W-1	12" PVC WATERLINE	C-900, DR 18	674 LF
W-2	8" PVC WATERLINE (FIRE SERVICES ONLY)	C-900, DR 18	410 LF
W-3	FLANGED TEE		2 EA
W-4	FLANGED GATE VALVE	EMWD STD. DWG. B-255	1 EA
W-5	2" WATER SERVICE W/O METER FUTURE 2" METER W/ BACKFLOW	EMWD STD. DWG. B-344A EMWD STD. DWG. B-344 & B-597A	12 EA
W-6	2" B.O.	EMWD STD. DWG. B-357	2 EA
W-7	INSTALL TEMP. 6" B.O., 1" A.V. & A.R., AND 12" HxH RSGV	EMWD STD. DWG. B-568, & B-598	1 EA
W-8	SUPER FIRE HYDRANT	EMWD STD. DWG. B-517	2 EA
W-9	8" FIRE SERVICE W/ DOUBLE DETECTOR CHECK ASSEMBLY	EMWD STD. DWG. B-657	4 EA
W-10	2" IRRI SERVICE W/O METER FUTURE 1 ½" METER W/ BACKFLOW	EMWD STD. DWG. B-344A EMWD STD. DWG. B-342 & B-597A	3 EA
W-11	TRENCH RESURFACING		1,160 SF
W-12	SADDLE OUTLET	EMWD STD. DWG. B-271	4 EA
SEWER IMPROVEMENTS (PUBLIC)			
S-1	8" SEWER	PVC SDR 35	745 LF
S-2	48" MANHOLE	EMWD STD. DWG. SB-53	4 EA
S-3	4" PRIVATE SEWER LATERAL	EMWD STD. DWG. SB-177	215 LF
S-4	4" PRIVATE ON-STIE SEWER CLEANOUT	EMWD STD. DWG. SB-52	3 EA
S-5	8" PRIVATE MAIN LINE SEWER CLEANOUT	EMWD STD. DWG. SB-52	1 EA

LEGEND

CENTERLINE
RIGHT OF WAY
EXISTING SEWER
EXISTING WATER
EXISTING GAS LINE
EXISTING STORM DRAIN

ABBREVIATION LIST

WTR. – WATER
SWR. – SEWER
G.B. – GRADEBREAK
T.O.R. – TOP OF RIM
S – SLOPE
C.G. – CENTERLINE OF GRADE
PROP. – PROPOSED
EXIST. – EXISTING
FS – FINISH SURFACE
CL – CENTER LINE
I.E. – INVERT ELEVATION
INV. – INVERT ELEVATION
RCP – REINFORCED CONCRETE PIPE
F.H. – FIRE HYDRANT
SD – STORM DRAIN
BOT. – BOTTOM
X-ING – CROSSING
M.H. – MAN HOLE
R/W – RIGHT OF WAY
LAT. – LATERAL
ELEV. – ELEVATION
REST. JNTS. – RESTRAINED JOINTS
HORIZ. – HORIZONTAL BEND
BF – BACKFLOW
IRR – IRRIGATION

NOTIFICATIONS

AT LEAST 48 HOURS PRIOR TO COMMENCING CONSTRUCTION, CONTRACTOR SHALL NOTIFY:
1. EASTERN MUNICIPAL WATER DISTRICT
FIELD ENGINEERING DEPARTMENT, (951) 928-3777, EXT 4291
2. PERMIT AGENCY
CITY OF MURRIETA, (951) 698-1040
3. UNDERGROUND SERVICE ALERT (USA)
1 (800) 227-2600 OR 311
4. ALL OTHER AFFECTED AGENCIES THAT ARE NOT MEMBERS OF USA.

Underground Service Alert
Call: TOLL FREE
1-800
422-4133
TWO WORKING DAYS BEFORE YOU DIG

DATE	BY	REVISIONS	APP'D	BY

REGISTERED PROFESSIONAL ENGINEER ROBERT D. DENTINO No. 45629 Exp. 12-31-18 CIVIL STATE OF CALIFORNIA

Designed By	Drawn By	Checked By

Plans Prepared Under Supervision Of
ROBERT D. DENTINO
Date Mar 28, 2019
R.C.E. No. 45629 Expires 12-31-18

EXCEL ENGINEERING
LAND PLANNING CIVIL ENGINEERING SURVEYING
440 STATE PLACE
ESCONDIDO, CA 92029
TEL (760) 745-8118
FAX (760) 745-1890

EASTERN MUNICIPAL WATER DISTRICT
EMWD 2270 TRUMBLE ROAD
PERRIS, CA 92570
(909) 928-3777
FAX (909) 928-6177

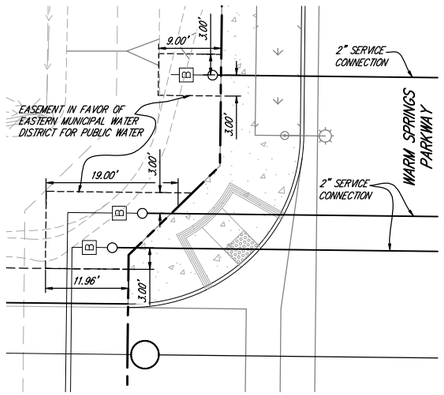
WATER / SEWER / RECYCLED WATER / APPROVED BY:
EASTERN MUNICIPAL WATER DISTRICT

CIVIL ENGINEER OF SUBDIVISIONS DATE

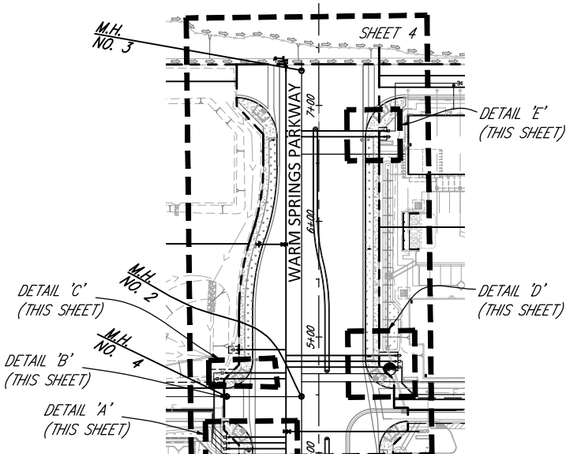
APPROVALS		INITIAL	DATE
	PROJECT ENGINEER		

CITY OF MURRIETA
TPM 36493/DP2012-3260
SEWER & WATER
PLAN AND PROFILE
"THE VINEYARD"
CLINTON KEITH ROAD &
WARM SPRINGS PARKWAY

I.D. 23/22
S.A. 43/34
W.O. 19374
C.O.
COORD.
SHT 1 OF 4
D –

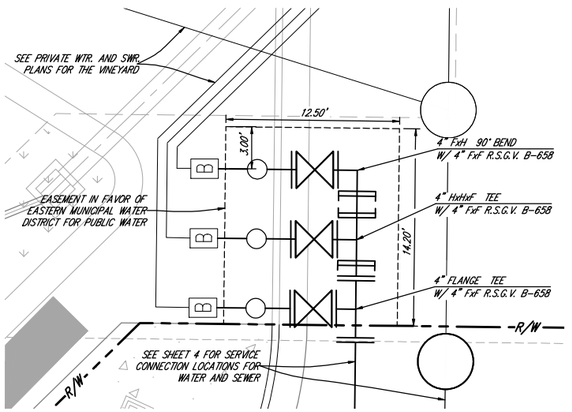


EASEMENT & SERVICE CONNECTION DETAIL 'C'
SCALE: 1" = 10'

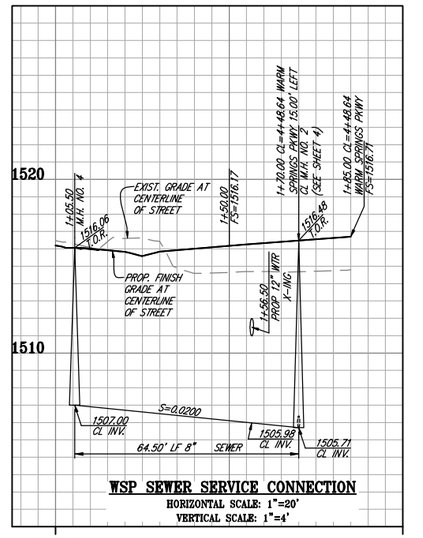


KEY MAP

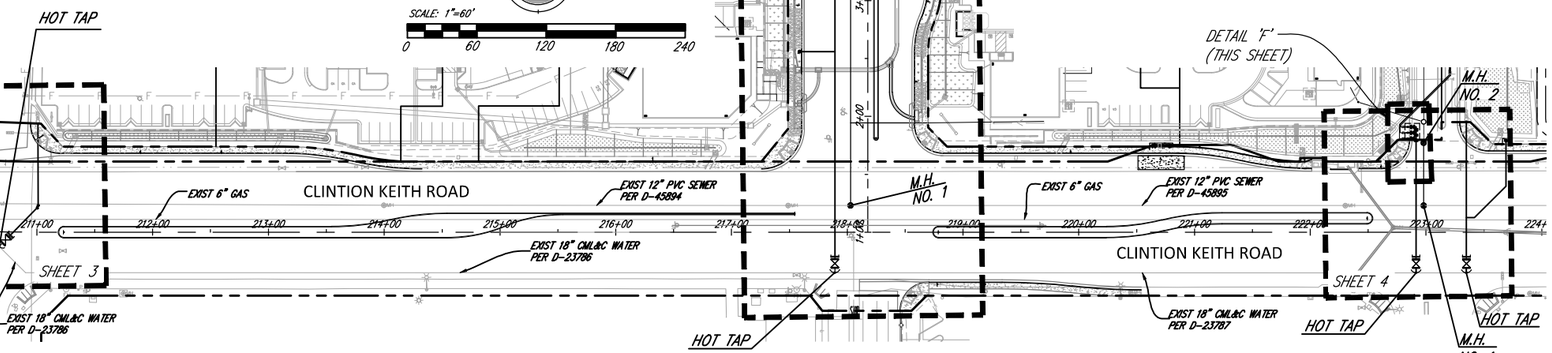
SCALE: 1"=60'
0 60 120 180 240

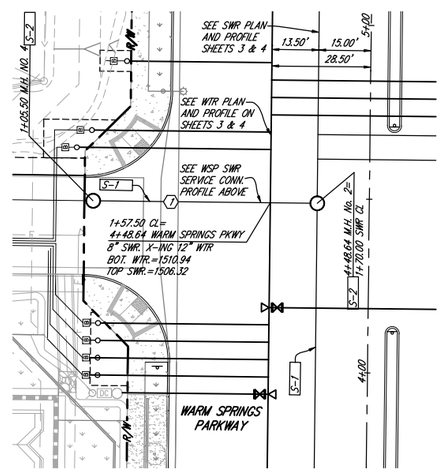


EASEMENT AND WATER MANIFOLD DETAIL F
SCALE: 1" = 5'

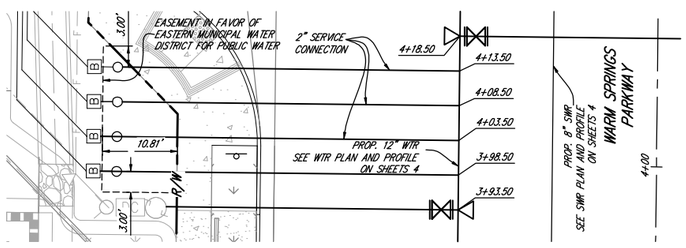


WSP SEWER SERVICE CONNECTION
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=4'

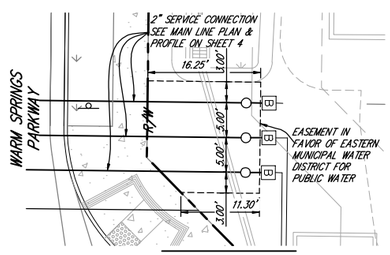




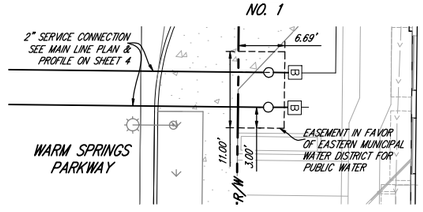
WARM SPRINGS PKWY SEWER SERVICE CONNECTION DETAIL 'B'
SCALE: 1" = 20'



EASEMENT & SERVICE CONNECTION DETAIL 'A'
SCALE: 1" = 10'



EASEMENT DETAIL 'D'
SCALE: 1" = 10'



EASEMENT DETAIL 'E'
SCALE: 1" = 10'

SEWER IMPROVEMENTS (PUBLIC)

S-1	8"	SEWER
S-2	48"	MANHOLE PER EMWD STD. DWG. SB-53

SEWER DATA

NO	DELTA/BRG	RADIUS	LENGTH	REMARK
1	N89°21'15"E	--	70.00'	8" PVC-SDR 35

PRESSURE ZONE = 1698K

Underground Service Alert
Call: TOLL FREE
1-800
422-4133
TWO WORKING DAYS BEFORE YOU DIG

DATE	BY	REVISIONS	APP'D	BY

REGISTERED PROFESSIONAL ENGINEER ROBERT D. DENTINO No. 45629 Exp.12-31-18 CIVIL STATE OF CALIFORNIA

Designed By	Drawn By	Checked By

Plans Prepared Under Supervision Of
ROBERT D. DENTINO
Date Mar 25, 2019
R.C.E. No. 45629
Expires 12-31-18

EXCEL ENGINEERING
LAND PLANNING CIVIL ENGINEERING SURVEYING
440 STATE PLACE
ESCONDIDO, CA 92029
TEL (760) 745-8118
FAX (760) 745-1890

EASTERN MUNICIPAL WATER DISTRICT
EMWD 2270 TRUMBLE ROAD
PERRIS, CA 92570
(909) 928-3777
FAX (909) 928-6177

WATER / SEWER / RECYCLED WATER / APPROVED BY:
EASTERN MUNICIPAL WATER DISTRICT

CIVIL ENGINEER OF SUBDIVISIONS _____ DATE _____

APPROVALS		INITIAL	DATE
	PROJECT ENGINEER		

CITY OF MURRIETA
TPM 36493/DP2012-3260
SEWER & WATER
PLAN AND PROFILE
"THE VINEYARD"
CLINTON KEITH ROAD

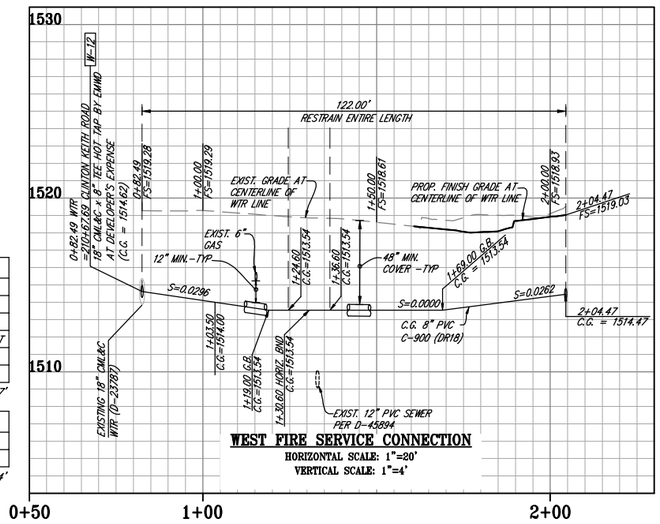
I.D.	23/22
S.A.	43/34
W.O.	19374
C.O.	
COORD.	
SHT	2 OF 4
D -	

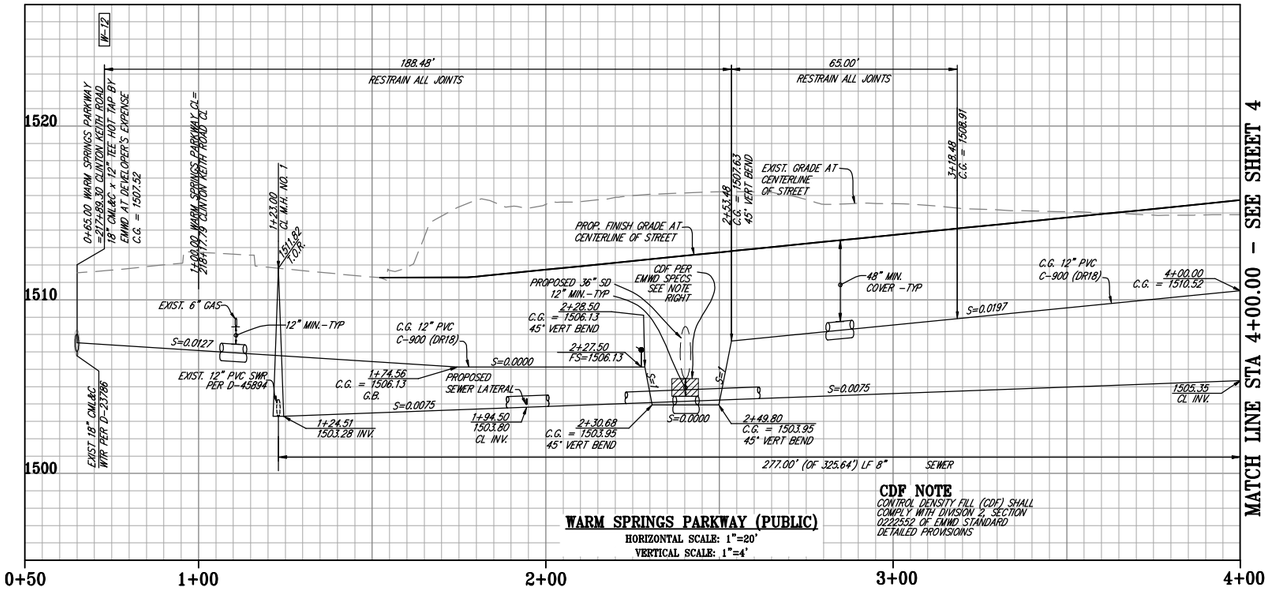
WATER DATA				
NO	DELTA/BRG	RADIUS	LENGTH	REMARK
1	N00°38'45"E	--	*335.01'	12" PVC-DR18
2	N89°21'07"W	--	42.00'	8" PVC-DR18
3	N89°21'07"W	--	48.50'	2" SERVICE CONNECT
4	N45°20'03"E	--	48.12'	8" PVC-DR18
5	N00°20'03"E	--	73.87'	" "

*PORTION SHOWN OF 672.67'

SEWER DATA				
NO	DELTA/BRG	RADIUS	LENGTH	REMARK
2	N00°38'45"E	--	*277.00'	8"

*PORTION SHOWN OF 325.64'



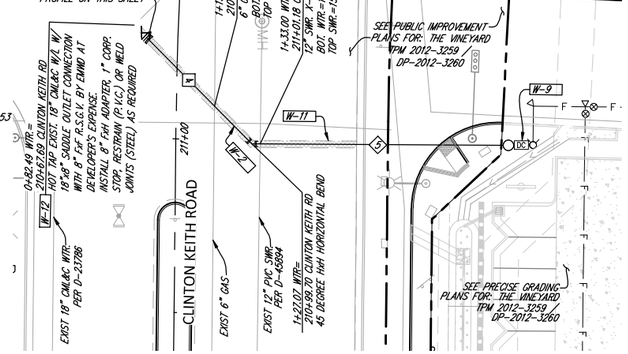


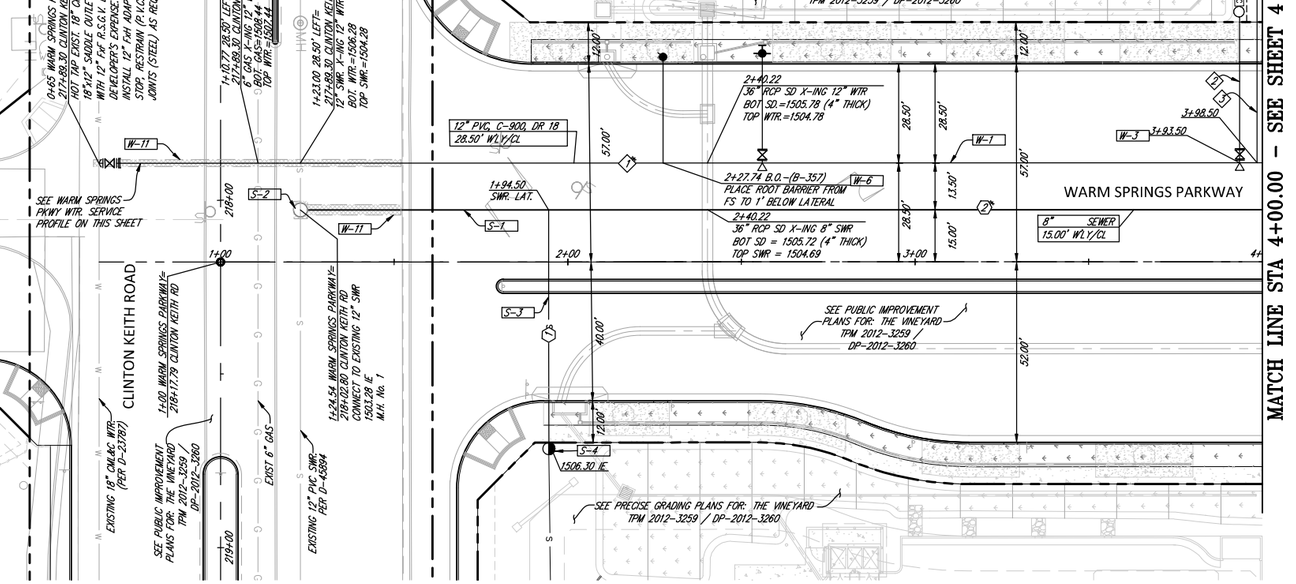
WATERLINE IMPROVEMENTS (PUBLIC)

W-1	12" PVC WATERLINE	C-900, DR 18
W-2	8" PVC WATERLINE	C-900, DR 18
W-3	FLANGED TEE	
W-4	FLANGED GATE VALVE	EMWD STD. DWG. B-255
W-5	2" WATER SERVICE W/O METER FUTURE 2" METER W/ BACKFLOW	EMWD STD. DWG. B-344A EMWD STD. DWG. B-344 & B-597A
W-6	2"-B.O.	EMWD STD. DWG. B-357
W-7	INSTALL TEMP. 6" B.O., 1" A.V. & A.R., AND 12" HxH RSGV	EMWD STD. DWG. B-568, & B-598
W-8	SUPER FIRE HYDRANT	EMWD STD. DWG. B-517
W-9	8" FIRE SERVICE W/ DOUBLE DETECTOR CHECK ASSEMBLY	EMWD STD. DWG. B-657
W-10	2" IRRI SERVICE W/O METER FUTURE 1 ½" METER W/ BACKFLOW	EMWD STD. DWG. B-344 & B-344A
W-11	TRENCH RESURFACING	
W-12	SADDLE OUTLET	EMWD STD. DWG. B-271

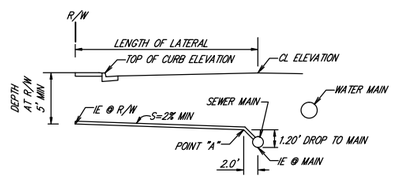
SEWER IMPROVEMENTS (PUBLIC)

S-1	8" SEWER	
S-2	48" MANHOLE	EMWD STD. DWG. SB-53
S-3	4" PRIVATE SEWER LATERAL	EMWD SB-177
S-4	4" PRIVATE ON-SITE SEWER CLEANOUT	EMWD SB-52
S-5	8" PRIVATE MAIN LINE SEWER CLEANOUT	EMWD SB-52





SCALE:1"=20'
0 20 40 60 80



SEWER LATERAL DETAIL
NOT TO SCALE

SEWER LATERAL TABLE

LAT. NO.	DELTA/BEARING	LENGTH	REMARK	ELEV. @ R/W	IE @ R/W	STA @ WARM SPRINGS	IE @ MAIN	IE @ P.T. A	SLOPE (%)
1	N89°21'15"W	67.00'	4" PVC	1511.44	1506.30	1+94.50	1503.80	1505.00	2.00

Underground Service Alert
Call: TOLL FREE 1-800 422-4133
TWO WORKING DAYS BEFORE YOU DIG

DATE	BY	REVISIONS	APP'D	BY

REGISTERED PROFESSIONAL ENGINEER ROBERT D. DENTINO No. 45629 Exp.12-31-18 CIVIL STATE OF CALIFORNIA

Designed By	Drawn By	Checked By

Plans Prepared Under Supervision Of
ROBERT D. DENTINO
Date Mar 28, 2019
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WATER / SEWER / RECYCLED WATER / APPROVED BY:
EASTERN MUNICIPAL WATER DISTRICT

CIVIL ENGINEER OF SUBDIVISIONS _____ DATE _____

APPROVALS		INITIAL	DATE
	PROJECT ENGINEER		

CITY OF MURRIETA
TPM 36493/DP2012-3260
SEWER & WATER
PLAN AND PROFILE
"THE VINEYARD"
CLINTON KEITH ROAD

I.D.	23/22
S.A.	43/34
W.O.	19374
C.O.	
COORD.	
SHT	3 OF 4
	D -

WATERLINE IMPROVEMENTS (PUBLIC)

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W-5	2" WATER SERVICE W/O METER FUTURE 2" METER W/ BACKFLOW	EMWD STD. DWG. B-344A EMWD STD. DWG. B-344 & B-597A
W-6	2"-B.O.	EMWD STD. DWG. B-357
W-7	INSTALL TEMP. 6" B.O., 1" A.V. & A.R., AND 12" HxH RSGV	EMWD STD. DWG. B-568, & B-598
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W-9	8" FIRE SERVICE W/ DOUBLE DETECTOR CHECK ASSEMBLY	EMWD STD. DWG. B-657
W-10	2" IRRI SERVICE W/O METER FUTURE 1 ½" METER W/ BACKFLOW	EMWD STD. DWG. B-344 & B-344A
W-11	TRENCH RESURFACING	
W-12	SADDLE OUTLET	EMWD STD. DWG. B-271

SEWER IMPROVEMENTS (PUBLIC)

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S-2	48" MANHOLE	EMWD STD. DWG. SB-53
S-3	4" PRIVATE SEWER LATERAL	EMWD SB-177
S-4	4" PRIVATE ON-SITE SEWER CLEANOUT	EMWD SB-52
S-5	8" PRIVATE MAIN LINE SEWER CLEANOUT	EMWD SB-52

WATER DATA

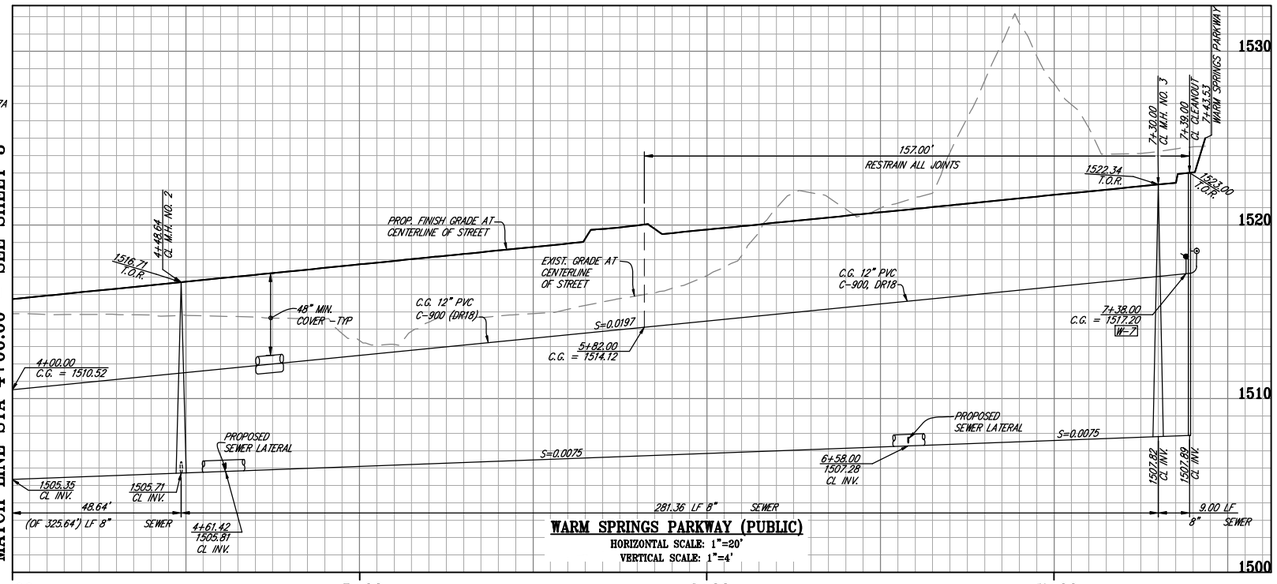
NO	DELTA/BRG	LENGTH	REMARK
1	N00°38'45"E	* 338.75'	12" PVC-DR18
2	N89°21'07"W	48.50'	2" SERVICE CONNECT
3	N89°21'07"W	48.50'	2" SERVICE CONNECT
4	N89°21'07"W	48.50'	" "
5	N89°21'07"W	55.20'	" "
6	N89°21'07"W	50.90'	" "
7	N89°21'07"W	115.00'	8" PVC-DR18
8	N89°21'15"W	94.00'	2" SERVICE CONNECT
9	N89°21'15"W	94.00'	" "
10	N89°21'15"W	94.00'	" "
11	N89°21'15"W	41.00'	" "
12	N89°21'15"W	22.00'	6" PVC-DR18
13	N89°21'15"W	84.20'	2" SERVICE CONNECT
14	N89°21'15"W	84.20'	" "
15	N00°39'20"E	131.00'	8" PVC-DR18

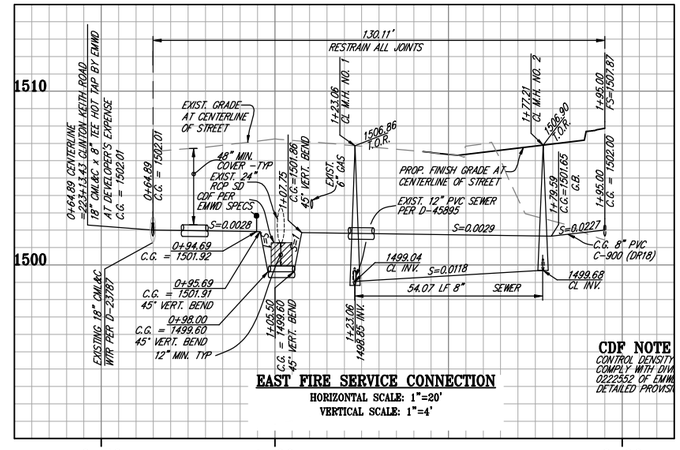
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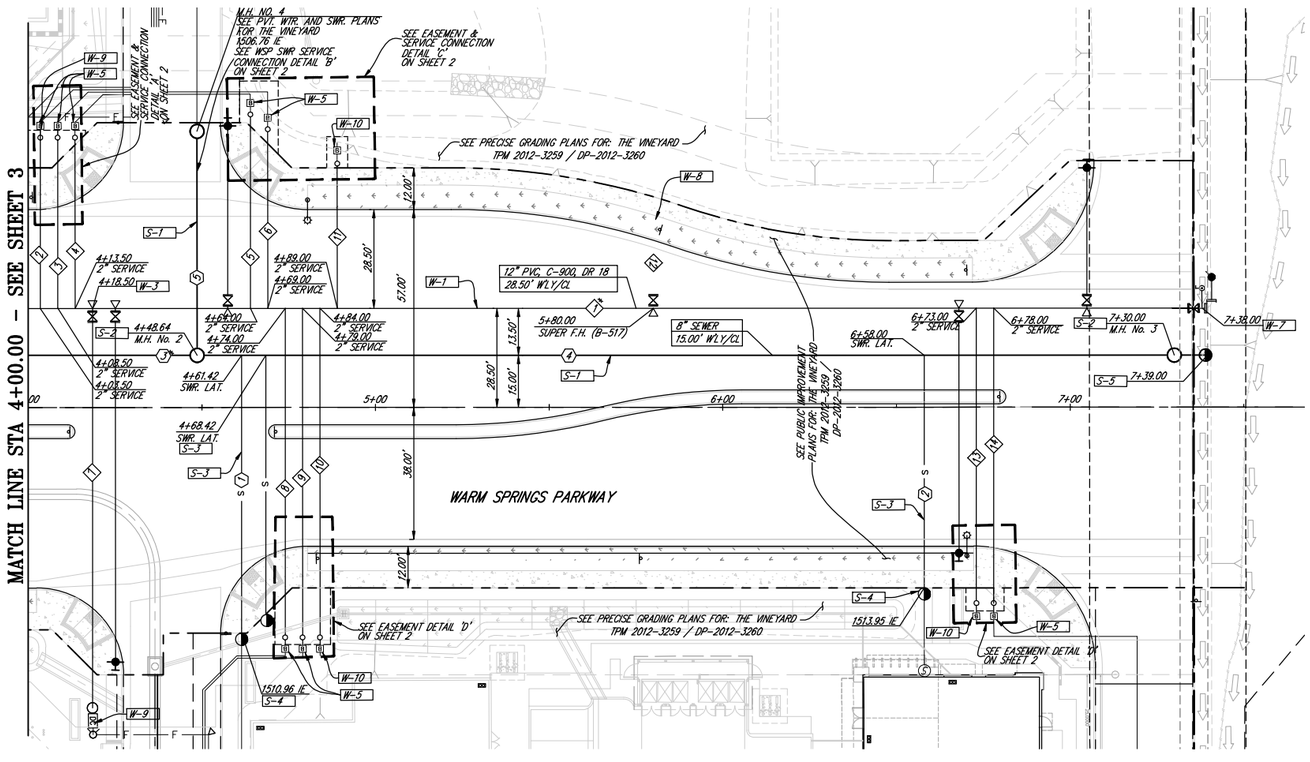
SEWER DATA

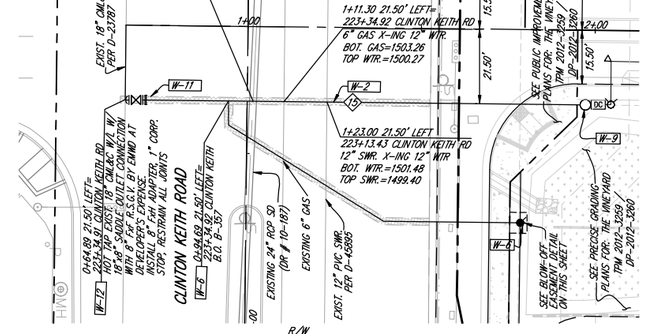
NO	DELTA/BRG	LENGTH	REMARK
3	N00°38'45"E	*48.64'	8"
4	N00°38'45"E	289.09	" "
5	N89°21'15"W	70.00'	" "
6	N00°38'45"E	54.15'	" "

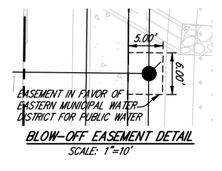
*PORTION SHOWN OF 325.64'



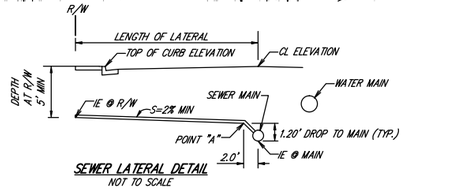








BLOW-OFF EASEMENT DETAIL
SCALE: 1"=10'



SEWER LATERAL DETAIL
NOT TO SCALE

SEWER LATERAL TABLE

LAT. NO.	DELTA/BEARING	LENGTH	REMARK	ELEV. @ R/W	IE @ R/W	STA @ WARM SPRINGS	IE @ MAIN	IE @ P.T. A	SLOPE (%)
1	N89°21'15"W	80.00'	4" PVC	1516.70	1510.96	4+61.42	1505.81	1507.01	5.06
2	N89°21'15"W	67.00'	4" PVC	1520.51	1513.95	6+58.00	1507.28	1508.48	8.42

Underground Service Alert
Call: TOLL FREE
1-800
422-4133
TWO WORKING DAYS BEFORE YOU DIG

DATE	BY	REVISIONS	APP'D	BY

REGISTERED PROFESSIONAL ENGINEER ROBERT D. DENTINO No. 45629 Exp.12-31-18 CIVIL STATE OF CALIFORNIA

Designed By | Drawn By | Checked By

Plans Prepared Under Supervision Of

ROBERT D. DENTINO

Date Jul 24, 2019

R.C.E. No. 45629 Expires 12-31-18

EXCEL ENGINEERING
LAND PLANNING CIVIL ENGINEERING SURVEYING
440 STATE PLACE
ESCONDIDO, CA 92029
TEL (760) 745-8118
FAX (760) 745-1890

EASTERN MUNICIPAL WATER DISTRICT
EMWD 2270 TRUMBLE ROAD
PERRIS, CA 92570
(909) 928-3777
FAX (909) 928-6177

WATER / SEWER / RECYCLED WATER / APPROVED BY:
EASTERN MUNICIPAL WATER DISTRICT

CIVIL ENGINEER OF SUBDIVISIONS — DATE

APPROVALS

PROJECT ENGINEER	INITIAL	DATE

CITY OF MURRIETA
TPM 36493/DP2012-3260
SEWER & WATER
PLAN AND PROFILE
"THE VINEYARD"
CLINTON KEITH ROAD

I.D.	23/22
S.A.	43/34
W.O.	19374
C.O.	
COORD.	
SHT	4 OF 4
	D -

EASTERN MUNICIPAL WATER DISTRICT

CITY OF MURRIETA

EASTERN MUNICIPAL WATER DISTRICT
SINCE 1950

PACIFIC LANDING APARTMENTS
SEWER AND WATER IMPROVEMENTS
DRAWING INDEX

SHT NO.	SHEET TITLE
1	TITLE SHEET, VICINITY AND LOCATION MAP
2	NOTES AND DETAILS
3	SEWER FORCE MAIN PLAN AND PROFILE
4	CREIGHTON AVENUE WATER AND SEWER IMPROVEMENTS PLAN AND PROFILE
5	CLINTON KEITH ROAD WATER AND SEWER IMPROVEMENTS PLAN AND PROFILE
6	CLINTON KEITH ROAD SEWER IMPROVEMENTS PLAN AND PROFILE
7	CLINTON KEITH ROAD SEWER IMPROVEMENTS PLAN AND PROFILE

GENERAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEARING OF THE PROPOSED WORK AREA, AND RELOCATION COST OF ALL EXISTING UTILITIES. PERMITTEE MUST INFORM THE CITY OF CONSTRUCTION SCHEDULE AT LEAST 48 HOURS PRIOR TO BEGINNING OF CONSTRUCTION PHONE: (951)304-2489
2. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE CITY OF MURRIETA PUBLIC WORKS DEPARTMENT IMPROVEMENT STANDARDS AND THE LATEST EDITION OF STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION (GREEN BOOK).
3. THE DEVELOPER WILL INSTALL STREET NAME SIGNS CONFORMING TO CITY STANDARD NO. 601.
4. CURB DEPRESSIONS AND DRIVEWAY APPROACHES WILL BE INSTALLED AND CONSTRUCTED ACCORDING TO CITY STANDARD NO. 308, 309, OR 310, AS DIRECTED IN THE FIELD.
5. BLUE RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED TO MARK FIRE HYDRANT AND/OR WATER SUPPLY LOCATIONS AT THE DIRECTION OF THE CITY INSPECTOR FOLLOWING FINAL SEALANT AND STRIPING.
6. WORK MAY NOT START UNTIL PERMITS HAVE BEEN OBTAINED.
7. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS WITH UNDERGROUND SERVICE ALERT AT 1-800-422-4133 AT LEAST TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION.
8. ALL PAVEMENT SECTIONS ARE AT MINIMUM REQUIREMENTS. ADDITIONAL SOIL TEST SHALL BE TAKEN AFTER ROUGH GRADING TO DETERMINE THE EXACT STRUCTURAL SECTION REQUIREMENTS. USE STANDARD NO. 320 IF EXPANSIVE SOIL ARE ENCOUNTERED.
9. DUST CONTROL SHALL BE MAINTAINED AT ALL TIMES BY WATER OR OTHER APPROVED METHODS.
10. EQUIPMENT AND MATERIALS SHALL BE STORED IN A NEAT AND PROTECTED MANNER.
11. THE CONTRACTOR WILL CONDUCT HIS OPERATIONS AS TO OFFER THE LEAST POSSIBLE OBSTRUCTION AND INCONVENIENCE TO PUBLIC TRAFFIC, AND HE SHALL HAVE UNDER CONSTRUCTION NO GREATER LENGTH OR AMOUNT OF WORK THAN HE CAN EXECUTE PROPERLY. ON EXISTING ROADS, TRAFFIC SHALL BE PERMITTED TO PASS THROUGH THE WORK AREA WITH AS LITTLE INCONVENIENCE AND DELAY AS POSSIBLE.
12. EXISTING TRAFFIC SIGNALS AND LIGHTING SYSTEMS SHALL BE KEPT IN OPERATION FOR THE BENEFIT OF THE TRAVELING PUBLIC, AND TO MINIMIZE ANY INTERFERENCE WITH ROUTINE MAINTENANCE OF EXISTING SYSTEMS DURING WORK PROGRESS.
13. WHENEVER THE CONTRACTOR'S OPERATION CREATES A HAZARDOUS CONDITION TO TRAFFIC OR TO THE PUBLIC, HE SHALL FURNISH AT HIS OWN EXPENSE, SUCH FLAGMEN AND GUARDS AS ARE NECESSARY TO GIVE ADEQUATE WARNING TO THE PUBLIC OF ANY DANGEROUS CONDITIONS. HE SHALL ALSO FURNISH, ERECT AND MAINTAIN SUCH FENCES BARRICADES, LIGHTS, SIGNS, AND OTHER DEVICES NECESSARY TO PREVENT ACCIDENTS AND INJURY TO THE PUBLIC.
14. WHERE SURVEY MONUMENTS EXIST, SUCH MONUMENTS WILL BE PROTECTED OR SHALL BE REFERENCED AND RESET, PURSUANT TO BUSINESS AND PROFESSIONS CODE, SECTION 8700 TO 8805 (LAND SURVEYOR'S ACT).
15. WHERE NEW A.C. PAVEMENT JOIN EXISTING PAVEMENT, SAWCUT TO A NEAT EDGE. THE SAWCUTS MUST BE PERPENDICULAR, PARALLEL OR RADIAL TO THE ROADWAY CENTERLINE. OVERLAY AND FEATHER NEW A.C. PAVEMENT TO PROVIDE SMOOTH TRANSITION.
16. ALL EXISTING STREET SIGNS, ROADSIDE MARKERS ETC., SHALL BE PROTECTED AND/OR REPLACED IN KIND TO THE CURRENT CITY STANDARD PLANS AND CURRENT TRAFFIC MANUAL, AT NO COST TO THE CITY.
17. ASPHALTIC EMULSION (FOG SEAL)SHALL BE APPLIED NOT LESS THAN FOURTEEN (14) DAYS FOLLOWING PLACEMENT OF THE ASPHALT SURFACING AND SHALL BE APPLIED AT A MIN. RATE OF 0.05 GALLON PER SQUARE YARD. ASPHALTIC EMULSION SHALL CONFORM TO SECTION 37, 39, AND 94 OF THE STATE STANDARD SPECIFICATIONS.
18. ALL UNDERGROUND FACILITIES, WITH LATERALS SHALL BE IN PLACE PRIOR TO PAVING THE STREET SECTION INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING: WATER, SEWER, GAS, ELECTRIC, CABLE T.V., TELEPHONE, AND DRAINAGE.
19. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT ALL UTILITY LINES, INCLUDING ANY OTHER LINES NOT SHOWN ON THESE PLANS OR NOT OF RECORD.
20. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO APPLY TO THE CITY OF MURRIETA ENGINEERING DEPARTMENT, FOR AN ENCROACHMENT PERMIT FOR ALL WORK ON EXISTING CITY MAINTAINED ROADS, AND FOR UTILITY WORK WITHIN OFFERS OF DEDICATION FOR PUBLIC USE.
21. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER TO INSTALL STREET CENTERLINE MONUMENTS AS REQUIRED BY CITY STANDARD DRAWINGS NO. 616, 617, AND 618.
22. STREET LIGHTS SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY OF MURRIETA STANDARD NO. 619 OR 620.
23. APPROVAL OF THESE PLANS BY THE CITY OR ITS AGENTS DOES NOT RELIEVE THE APPLICANT AND HIS ENGINEER FROM THE RESPONSIBILITY FOR THE CORRECTION OF ERRORS OR OMISSIONS DISCOVERED DURING CONSTRUCTION. UPON REQUEST, THE APPROPRIATE PLAN REVISIONS SHALL BE PROMPTLY SUBMITTED TO THE CITY ENGINEER FOR REVIEW AND APPROVAL.
24. ALL GTE, SCE AND SCG FACILITIES WILL BE RELOCATED OR MODIFIED BY THE RESPECTIVE UTILITIES OR THEIR APPOINTED REPRESENTATIVES.
25. ALL WATER RELATED WORK SHALL BE DONE IN ACCORDANCE WITH THE SERVICING WATER DISTRICT STANDARDS AND SPECIFICATIONS.
26. ALL SEWER RELATED WORK SHALL BE DONE IN ACCORDANCE WITH THE SERVICING WATER DISTRICT STANDARDS AND SPECIFICATIONS.
27. ANY SERVICE SHUT DOWN SHALL BE DONE AT NIGHT, PRIOR TO ANY SHUT DOWN, THE CONTRACTOR SHALL NOTIFY THE DIRECTOR, ENGINEER, CUSTOMER, FIRE DEPARTMENT, SERVICING WATER DISTRICT, AND ALL OTHERS AFFECTED BY THE SHUT DOWN A MINIMUM OF TWO (2) WEEKS IN ADVANCE.
28. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER OR CONTRACTOR TO APPLY TO CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) FOR AN ENCROACHMENT PERMIT FOR ALL WORK PERFORMED WITHIN THE STATE RIGHT-OF-WAY.
29. 24 HOUR EMERGENCY CONTACT: ALEX LASTRA
CELL: 305-867-2245

EMWD SEWER NOTES

1. SEWER SYSTEM CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH EMWD'S STANDARDS AND SPECIFICATIONS.
2. GRAVITY SEWER PROFILE ELEVATIONS ARE TO FLOW LINE (CONDUIT INVERT). FORCE MAIN PROFILE ELEVATIONS ARE TO CENTIGRADE (C.G.).
3. FOR GRAVITY SEWER CONTRACTOR HAS THE OPTION TO INSTALL PLASTIC OR VCP SEWERS EXCEPT WHERE SPECIFICALLY DESIGNATED ON PLANS PER EMWD STANDARDS AND SPECIFICATIONS. FORCE MAIN SHALL BE TYPE C-900, DR-18 EXCEPT WHERE NOTED, OTHERWISE PIPE SHALL CONFORM TO AWWA SPECIFICATIONS.
4. MANHOLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DRAWINGS SB-53, SB-58 AND SB-61, AS APPLICABLE. SEWER MAINS MAY BE LAID THROUGH THE MANHOLES AND USED AS A FORM FOR THE INVERT.
5. PRIOR TO CONSTRUCTION OF SEWER, CONTRACTOR SHALL EXPOSE EXISTING SEWER AND VERIFY ITS EXISTING ELEVATION AND LOCATION. WHERE CONNECTING TO EXISTING MANHOLES AND INLET STUB OF PROPER SIZE EXISTS, NO ALTERATIONS SHALL BE MADE TO EXISTING MANHOLE BASE OR STUB EXCEPT AS SPECIFICALLY AUTHORIZED BY EMWD.
6. ALL SEWER INLETS AT THE MANHOLE SHALL BE SUCH THAT ITS CROWN SHALL BE LEVEL WITH THE CROWN OF THE OUTLET PIPE, AT THEIR PROJECTIONS TO THE MANHOLE CENTERLINE.
7. RECONSTRUCTION OF EXISTING MANHOLES SHALL BE SCHEDULED AT THE CONVENIENCE OF EMWD AND SHALL BE COMPLETED WITHIN FIVE WORKING DAYS FOLLOWING ITS COMMENCEMENT.
8. THE CONTRACTOR IS ADVISED THAT THE WORK ON THIS PROJECT MAY INVOLVE WORKING IN A CONFINED AIR SPACE. CONTRACTOR SHALL BE RESPONSIBLE FOR "CONFINED AIR SPACE" ARTICLE 108, TITLE 8, CALIFORNIA ADMINISTRATIVE CODE.
9. WHERE GROUNDWATER IS ENCOUNTERED, ALL VCP PIPE SHALL BE TREATED FOR ABSORPTION RESISTANCE PER EMWD'S SPECIFICATIONS.
10. ALL PIPE ZONE BEDDING & TRENCH BACKFILL ARE TO BE PER STANDARD DRAWING SB-157, SB-158 AND SB-159.
11. SEWER FORCE MAIN PROFILE ELEVATIONS ARE TO CENTERLINE (CENTER GRADE) OF PIPE.
12. INSTALL LOCATOR WIRE OVER SEWER FORCE MAIN PER STANDARD B-858.
13. JOINT RESTRAINERS SHALL BE USED ON ALL MAINLINE (SEWER FORCE MAIN) PIPE JOINTS WITHIN SPECIFIED LIMITS PER EMWD STANDARD B-663.

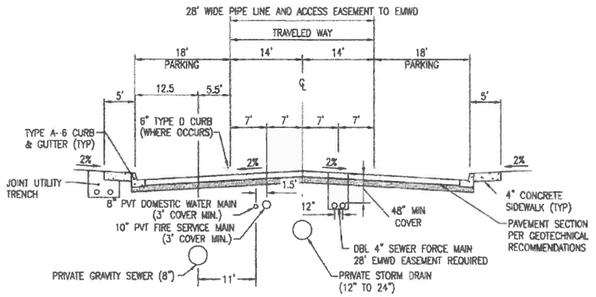
EMWD WATER NOTES

1. WATER PIPELINE AND APPURTENANT CONSTRUCTION SHALL BE IN ACCORDANCE WITH EMWD STANDARDS AND SPECIFICATIONS
2. PRIOR TO CONSTRUCTION OF PIPELINE, CONTRACTOR SHALL EXPOSE EXISTING WATER SYSTEM AND VERIFY ITS EXISTING ELEVATION AND LOCATION.
3. WHERE SEWERS HAVE BEEN CONSTRUCTED BY AGENCIES OTHER THAT EMWD, CONTRACTOR SHALL VERIFY SEWER LATERAL LOCATIONS PRIOR TO EXCAVATION FOR WATER PIPELINE. IN THE EVENT SEWER LATERALS ARE FOUND TO BE AT A DEPTH LESS THAN IN ACCORDANCE WITH EMWD SEWER STANDARDS, WATER PIPELINE CONTRACTOR SHALL ADJUST WATER PIPELINE DEPTH AS DIRECTED BY THE ENGINEER TO CROSS OVER THE SEWER LATERAL IF POSSIBLE, TO PROVIDE 36" MINIMUM COVER TO FINISH ROAD GRADE; OTHERWISE, CROSS UNDER THE LATERAL, WHICH REQUIRES SPECIAL CONSTRUCTION.
4. AIR VALVE ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH STD. DWG. B 598 TYPE "B".
5. WATER SYSTEM PROFILE ELEVATIONS ARE TO CENTERLINE (CENTER GRADE) OF PIPE.
6. APPROVED REDUCTION PRESSURE BACKFLOW PREVENTION DEVICE (B-597) REQUIRED FOR ALL INDUSTRIAL, COMMERCIAL, APARTMENT COMPLEXES AND LANDSCAPE SERVICES.
7. INSTALL LOCATOR WIRE OVER WATER MAIN PER STD DWG B-656.
8. FIRE HYDRANT ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH STD. DWG. B-362 WITH LIGHT BLUE COLOR CODING.
9. BLOW -OFF ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH STD. DWG. B-357.
10. ALL PVC PIPE THROUGH 12 INCH SHALL BE TYPE C-900, DR 18, EXCEPT WHERE NOTED OTHERWISE.
11. FITTINGS FOR PVC PIPE SHALL BE DUCTILE OR GRAY IRON. FITTINGS SHALL BE FLANGED, BOLTED MECHANICAL JOINTS, OR PUSH-ON JOINTS, AND SHALL BE CEMENT MORTAR LINED AND TAR (SEAL) COATED PER EMWD STANDARDS AND SPECIFICATIONS.
12. ALL DUCTILE OR GRAY IRON FITTINGS SHALL BE POLYETHYLENE ENCASED AT THE TIME OF INSTALLATION PER EMWD STANDARDS AND SPECIFICATIONS.
13. A JOINT RESTRAINT DEVICE SHALL BE USED ON ALL MAIN LINE PIPE JOINTS WITHIN SPECIFIED LIMITS AND ALL JOINTS OR WATER APPURTENANCE LATERALS OFF MAIN LINE, PER EMWD STD. DWG. B-663.

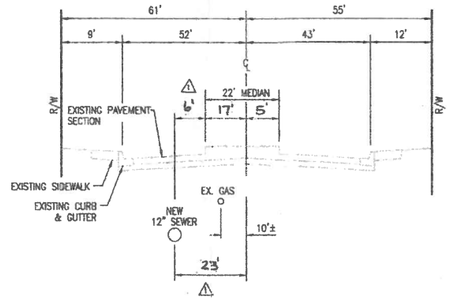
NOTIFICATIONS

AT LEAST 48 HOURS PRIOR TO COMMENCING CONSTRUCTION, CONTRACTOR SHALL NOTIFY:

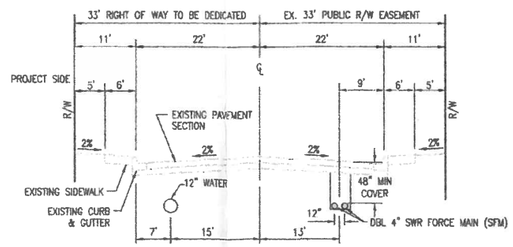
1. EASTERN MUNICIPAL WATER DISTRICT, FIELD ENGINEERING DEPARTMENT (951) 928-3777 EXT 4830
2. CITY OF MURRIETA (951) 698-1040
3. UNDERGROUND SERVICE ALERT 1-800-227-2600 OR 811
4. ALL OTHER AFFECTED AGENCIES THAT ARE NOT MEMBERS OF UNDERGROUND SERVICE ALERT



TYPICAL SECTION:PRIVATE ROAD
NO SCALE



TYPICAL SECTION:CLINTON KEITH ROAD (EXISTING)
NO SCALE



TYPICAL SECTION:CREIGHTON AVENUE (EXISTING)
NO SCALE

WATER CERTIFICATION

I CERTIFY THAT THE DESIGN OF THE WATER SYSTEM IN PCL 4 OF PM 27379 IS IN ACCORDANCE WITH THE WATER SYSTEM EXPANSION PLANS OF THE EASTERN MUNICIPAL WATER DISTRICT, AND THAT THE WATER SERVICE, STORAGE AND DISTRIBUTION SYSTEM WILL BE ADEQUATE TO PROVIDE WATER TO SUCH TRACT. THIS CERTIFICATION DOES NOT CONSTITUTE A GUARANTEE THAT IT WILL SUPPLY WATER TO SUCH TRACT AT ANY SPECIFIC QUANTITIES, FLOWS OR PRESSURE FOR FIRE PROTECTION OR ANY OTHER PURPOSE.

EASTERN MUNICIPAL WATER DISTRICT
BY Richard A. Valdez 2/25/14
CIVIL ENGINEER OF SUBDIVISIONS DATE

SEWER CERTIFICATION

I CERTIFY THAT THE DESIGN OF THE SEWER SYSTEM IN PCL 4 OF PM 27379 IS IN ACCORDANCE WITH THE EASTERN MUNICIPAL WATER DISTRICT'S SEWER SYSTEM MASTER PLAN, AND THE DISTRICT HAS PROGRAMMED ADEQUATE CAPACITY TO TREAT WASTES FROM THE PROPOSED TRACT.

EASTERN MUNICIPAL WATER DISTRICT
BY Richard A. Valdez 2/25/14
CIVIL ENGINEER OF SUBDIVISIONS DATE

TIME LIMITATIONS

THE TIME LIMIT ON DRAWING(S) APPROVAL SHALL BE SIX (6) MONTHS FROM THE DATE ON THE CERTIFICATION. IF CONSTRUCTION HAS NOT COMMENCED WITHIN STATED TIME, EMWD REQUIRES DRAWING(S) TO BE REVIEWED BY THE DEVELOPER/DESIGN ENGINEER AND RESUBMITTED TO EMWD FOR POSSIBLE CHANGES IN MASTER PLANNED SIZING AND CHANGES IN SPECIFICATIONS AND STANDARDS.

REGISTERED PROFESSIONAL ENGINEER RICHARD L. VALDEZ No. 42008 Exp. 12-31-2015 CIVIL STATE OF CALIFORNIA

DELTA 1 REVISION BY:
& DELTA 2
Richard Valdez 6.24.14
RICHARD VALDEZ
VSL ENGINEERING

UNDERGROUND SERVICE ALERT
CALL BEFORE YOU DIG
CALL: TOLL FREE
811
TWO WORKING DAYS BEFORE YOU DIG

PLANS PREPARED BY:
BURKETT&WONG ENGINEERS
ENGINEERS & SURVEYORS
3434 Fourth Ave. San Diego CA.
92103-5704 * (619) 299-5550
CARL M. FIORICA R.C.E No. 64715 2/24/14 DATE

REGISTERED PROFESSIONAL ENGINEER CARL M. FIORICA No. 64715 Exp. 08-30-15 CIVIL STATE OF CALIFORNIA

REVISIONS				
NO.	DATE	INITIALS	DESCRIPTION	APP'D/DATE
1	6.24.14	RV	REV. SEWER LOCATION CLINTON KEITH ROPER CONFLICTS	AGA 6/25/14
2	7/30/14	RV	REVISE SEWER & WATER PROFILES - SEE SHEET 4	AGA 9/15/15
3	8/9/16	PD	AS CONST. C.O. 68774/75 (CR 5/18/2016)	MS 1/31/17

REFERENCES

WATER/SEWER/SEWER FORCE MAIN APPROVED BY:
EASTERN MUNICIPAL WATER DISTRICT
Richard A. Valdez 2/25/14
CIVIL ENGINEER OF SUBDIVISIONS DATE

APPROVALS

	INITIALS	DATE
PROJECT ENG.	[illegible]	2/25/14

	DATE
DESIGNED: BWE	
DRAWN: BWE	
CHECKED: BWE	
SUBMITTED: BWE	
SCALE: N/A	

EASTERN MUNICIPAL WATER DISTRICT
CITY OF MURRIETA

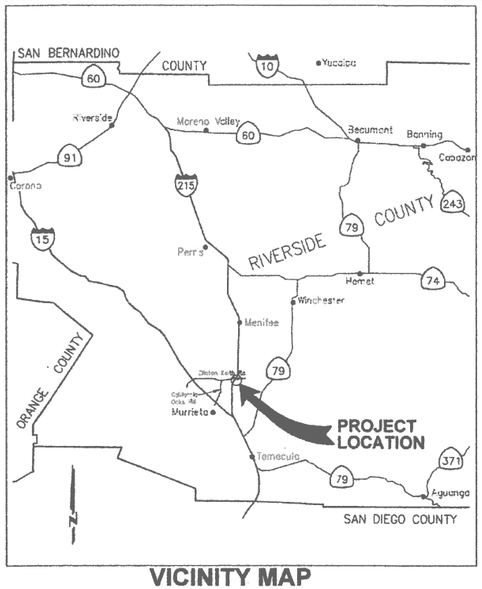
PACIFIC LANDING
SEWER, WATER, AND SEWER FORCE MAIN PLAN

TITLE SHEET

I.D.	23/22
S.A.	43/34
W.O.	13-267
C.O.	68774/75
COORD.	13A&C 18C
SHT	1 OF 7
	D-45890

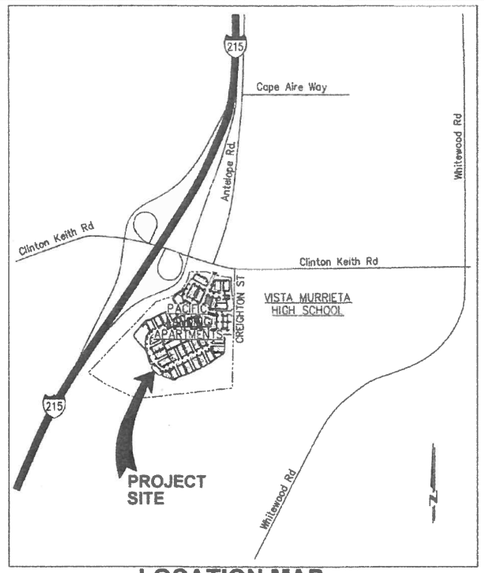
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\\APPROVED\S\11500\11500.00 PACIFIC LANDING\DWGS\SHEET DWGS\COVER.DGN 05-FEB-14 11:58:11 -TITLE.DWG (02-24-14 2:54:03PM)



VICINITY MAP

NOT TO SCALE



LOCATION MAP

NOT TO SCALE

CITY OF MURRIETA NOTES

1. THE SUB-DIVIDER OR CONTRACTOR SHALL APPLY TO THE CITY ENGINEERING DEPARTMENT FOR AN ENCROACHMENT PERMIT FOR ALL WORK WITHIN THE RIGHT-OF-WAY.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEARING OF THE PROPOSED WORK AREA, AND RELOCATION AND COST OF ALL EXISTING UTILITIES. THE CITY SHALL BE INFORMED 48 HOURS PRIOR TO BEGINNING OF CONSTRUCTION AT (951)304-2489.STREET LIGHTS SHALL BE INSTALLED AS SHOWN ON THE PLANS. UNDERGROUND CONDUIT RUNS, SERVICE POINTS AND HAND-HOLES SHALL BE SHOWN ON THE "AS-BUILT" PLANS.
3. ALL UNDERGROUND UTILITIES AND LATERALS SHALL BE INSTALLED PRIOR TO CONSTRUCTION OF CURBS, CROSS GUTTERS OR SURFACING OF STREETS.
4. FIRE HYDRANT MARKERS SHALL BE PLACED IN THE STREET ADJACENT TO ALL NEW AND EXISTING FIRE HYDRANTS IN CONFORMANCE WITH CITY FIRE DEPARTMENT REQUIREMENTS

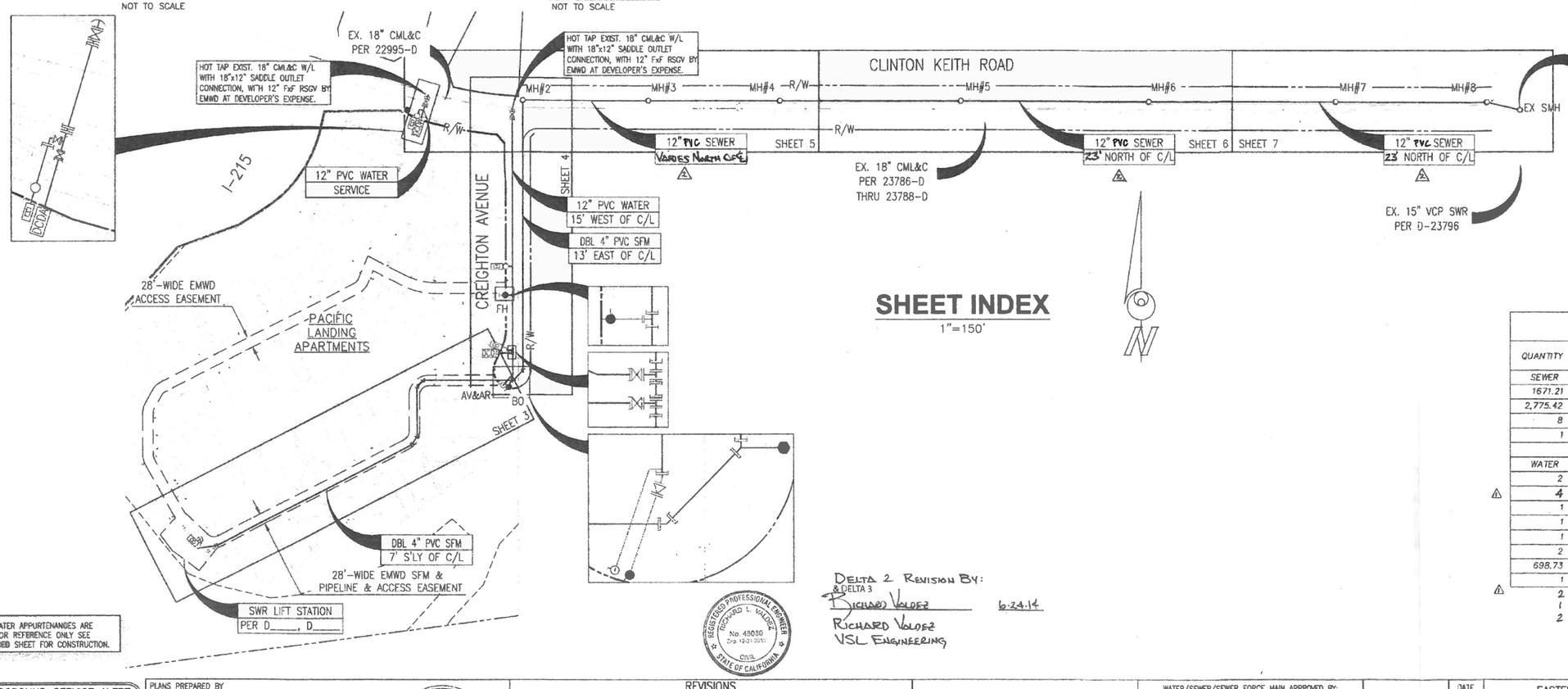
LEGEND

SEWER

- SEWER MANHOLE
- SEWER CLEANOUT
- EXISTING SEWER LINE
- EXISTING SEWER MANHOLE
- GRAVITY SEWER LINE
- SEWER FORCE MAIN

WATER

- EXISTING WATER LINE
- WATER LINE
- STANDARD FIRE HYDRANT
- RESILIENT SEAT GATE VALVE (FXF)
- BACKFLOW PREVENTOR (REDUCED PRESSURE) — R
- BACKFLOW PREVENTOR (DOUBLE DETECTOR CHECK) — DCDA
- REDUCER FITTING
- BLOW OFF
- COMBINATION AIR VALVE AND RELEASE
- WET TAP
- SERVICE
- SERVICE W/METER



SHEET INDEX

1"=150'

QUANTITY ESTIMATE		
QUANTITY	UNIT	ITEM
SEWER		
1671.21	LF	DUAL 4" PVC SEWER FORCE MAIN, C900 (DR-18)
2,775.42	LF	12" SEWER PVC SDR-35
8	EA	48" SEWER MANHOLE
1	EA	CONNECT TO EXISTING MANHOLE
WATER		
2	EA	6" GATE VALVES
4	EA	12" GATE VALVES
1	EA	FIRE HYDRANT ASSEMBLY
1	EA	BLOW OFF ASSEMBLY
1	EA	AIR VACUUM & AIR RELEASE ASSEMBLY
2	EA	HOT TAP CONNECTION
698.73	LF	12" PVC, C900 (DR-18) WATER
1	EA	2" WATER SERVICE
2	EA	6" WATER SERVICE
1	EA	1 ½" WATER METER
2	EA	3" WATER METER

DELTA 2 REVISION BY:
& DELTA 3
RICHARD VALDEZ 6.24.14
RICHARD VALDEZ
VSL ENGINEERING

REGISTERED PROFESSIONAL ENGINEER — RICHARD L. VALDEZ — No. 48030 — Exp. 12-31-2015 — CIVIL — STATE OF CALIFORNIA

PRESSURE ZONE: 1698-KELLER

UNDERGROUND SERVICE ALERT
CALL BEFORE YOU DIG
CALL: TOLL FREE 811
TWO WORKING DAYS BEFORE YOU DIG

PLANS PREPARED BY
BURKETT&WONG ENGINEERS
ENGINEERS & SURVEYORS
3434 Fourth Ave. San Diego CA.
92103-5704 * (619) 299-5550
CARL M. FIORICA R.C.E No. 64715 DATE 2/24/14

REGISTERED PROFESSIONAL ENGINEER — CARL M. FIORICA — No. 64715 — Exp. 06-30-15 — CIVIL — STATE OF CALIFORNIA

REVISIONS				
NO.	DATE	INITIALS	DESCRIPTION	APP'D/DATE
1	3/4/14	E.S.	UPDATE QUANTITY ESTIMATE	AGA 3/4/14
2	6/24/14	R.V.	REV. SEWER LOCATION CLINTON KEITH RD PER CONFLICTS	AGA 6/25/14
3	7/30/14	RV	ELIMINATE MH #1 - SEE SHEET 4	AGA 9/5/15
4	8/2/16	PD	AS CONST C.O. 68714/15 (C.R. 5/10/2016)	MG 1/31/17

REFERENCES

WATER/SEWER/SEWER FORCE MAIN APPROVED BY:
EASTERN MUNICIPAL WATER DISTRICT
CIVIL ENGINEER OF SUBDIVISIONS — DATE 2/05/14

APPROVALS

	INITIALS	DATE
PROJECT ENG.		2/25/14

	DATE
DESIGNED: BWE	
DRAWN: BWE	
CHECKED: BWE	
SUBMITTED: BWE	
SCALE: N/A	

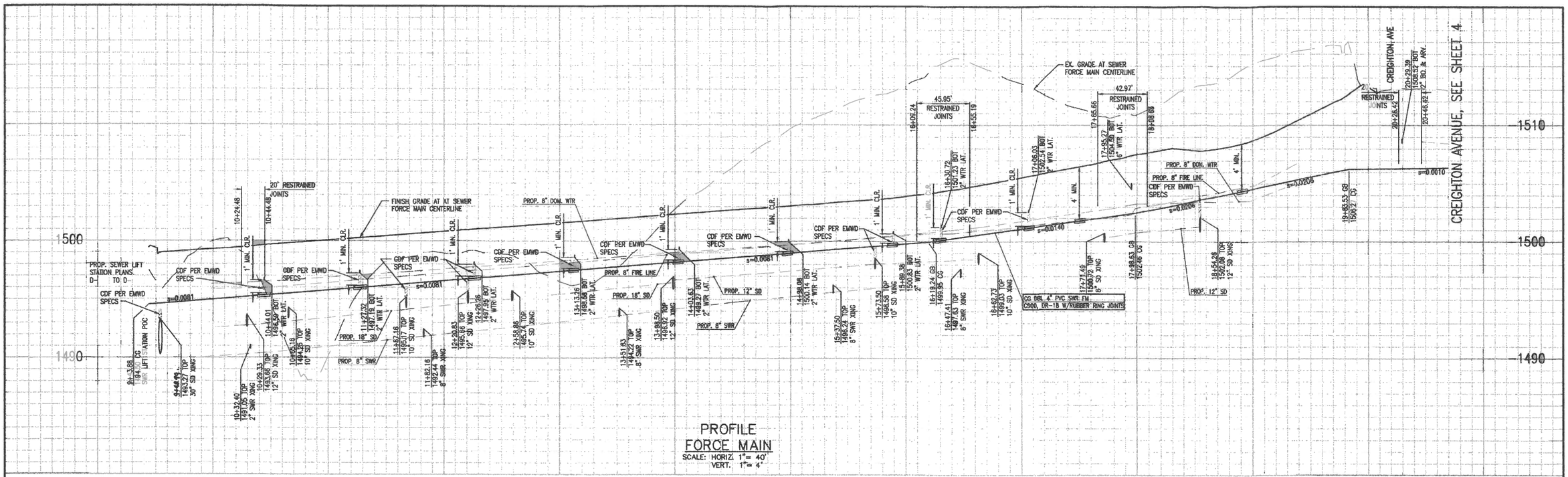
EASTERN MUNICIPAL WATER DISTRICT
CITY OF MURRIETA

PACIFIC LANDING
SEWER, WATER, AND SEWER FORCE MAIN PLAN

INDEX SHEET

I.D.	23/22
S.A.	43/34
W.O.	13-267
C.O.	68714/15
COORD.	13A&C 18C
SHT	2 OF 7
D-45891	4

M:\PROJECTS\113501\1\100 PACIFIC LANDING\DWGS\SHEET_DWGS\CDT\WTR DIST PENNANT\11501-NOTES.DWG (02-24-14 2:54:33PM)

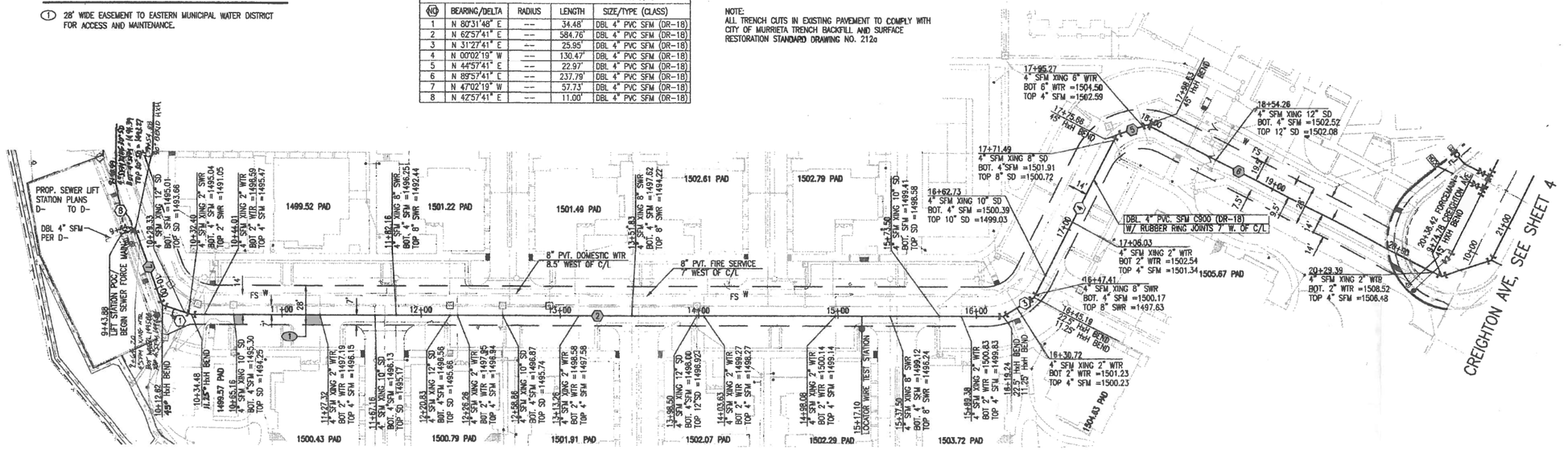


EASEMENT NOTES

(1) 28' WIDE EASEMENT TO EASTERN MUNICIPAL WATER DISTRICT FOR ACCESS AND MAINTENANCE.

SEWER FORCE MAIN DATA				AWWA C900
NO.	BEARING/DELTA	RADIUS	LENGTH	SIZE/TYPE (CLASS)
1	N 80°31'48" E	---	34.48'	DBL 4" PVC SFM (DR-18)
2	N 62°57'41" E	---	584.76'	DBL 4" PVC SFM (DR-18)
3	N 31°27'41" E	---	25.95'	DBL 4" PVC SFM (DR-18)
4	N 00°02'19" W	---	130.47'	DBL 4" PVC SFM (DR-18)
5	N 44°57'41" E	---	22.97'	DBL 4" PVC SFM (DR-18)
6	N 89°57'41" E	---	237.79'	DBL 4" PVC SFM (DR-18)
7	N 47°02'19" W	---	57.73'	DBL 4" PVC SFM (DR-18)
8	N 42°57'41" E	---	11.00'	DBL 4" PVC SFM (DR-18)

NOTE:
ALL TRENCH CUTS IN EXISTING PAVEMENT TO COMPLY WITH CITY OF MURRIETA TRENCH BACKFILL AND SURFACE RESTORATION STANDARD DRAWING NO. 212a



FORCE MAIN PLAN
10+00 TO 20+36.42

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PLANS PREPARED BY:
BURKETT&WONG ENGINEERS
ENGINEERS & SURVEYORS
3434 Fourth Ave. San Diego CA. 92103-5704 * (619) 299-5550
CARL M. FIORICA R.C.E No. 64715
4/7/14 DATE

REGISTERED PROFESSIONAL ENGINEER CARL M. FIORICA No. 64715 Exp. 06-30-15 CIVIL STATE OF CALIFORNIA

REVISIONS					
NO.	DATE	INITIALS	DESCRIPTION	APP'D/DATE	
1			THIS PLAN SUPERCEDES THE PREVIOUSLY APPROVED	ASG 4/01/14	REFERENCES
2			PLAN DATED 2/25/14	MS 1/01/17	
2	8/1/16	PD	AS CONST. CO. 68774/75 (C.R. 5/10/2016)		

WATER/SEWER/SEWER FORCE MAIN APPROVED BY:
EASTERN MUNICIPAL WATER DISTRICT
CIVIL ENGINEER OF SUBDIVISIONS 4/8/14 DATE

APPROVALS

	INITIALS	DATE
PROJECT ENG.		4/8/14

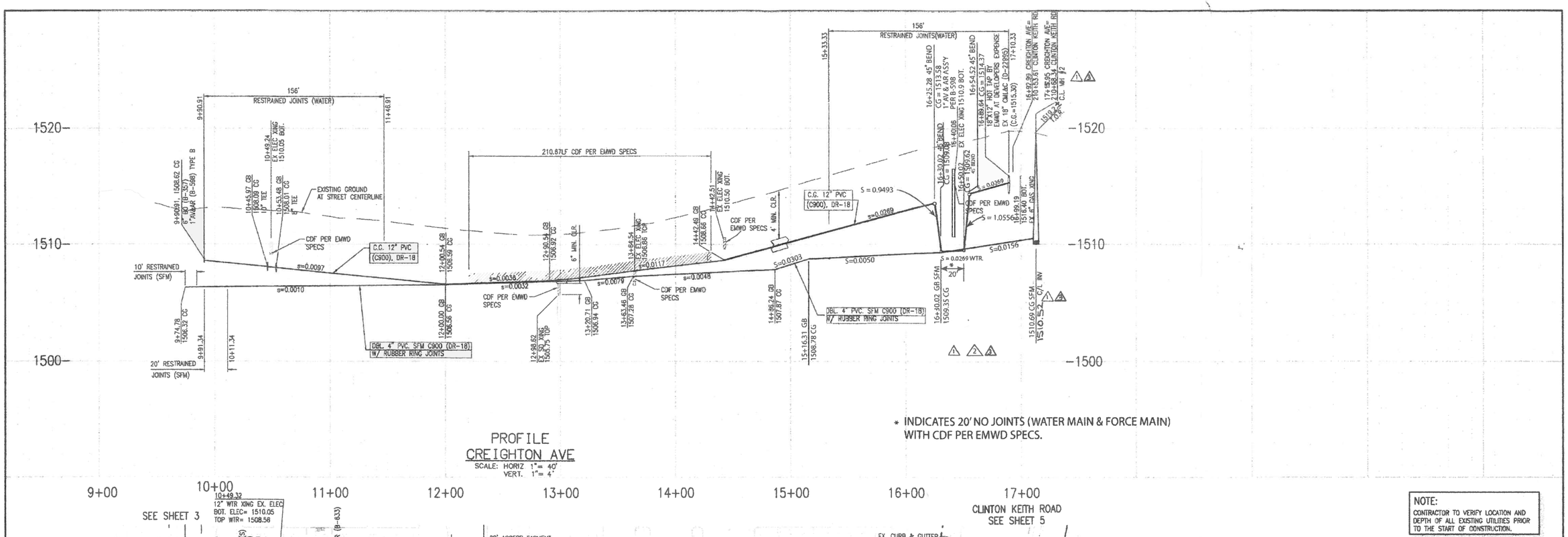
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DRAWN:	BWE	
CHECKED:	BWE	
SUBMITTED:	BWE	
SCALE: 1"=40'		

EASTERN MUNICIPAL WATER DISTRICT
CITY OF MURRIETA

PACIFIC LANDING
SEWER FORCE MAIN
PLAN AND PROFILE
SEWER FORCE MAIN
10+00 TO 20+36.42

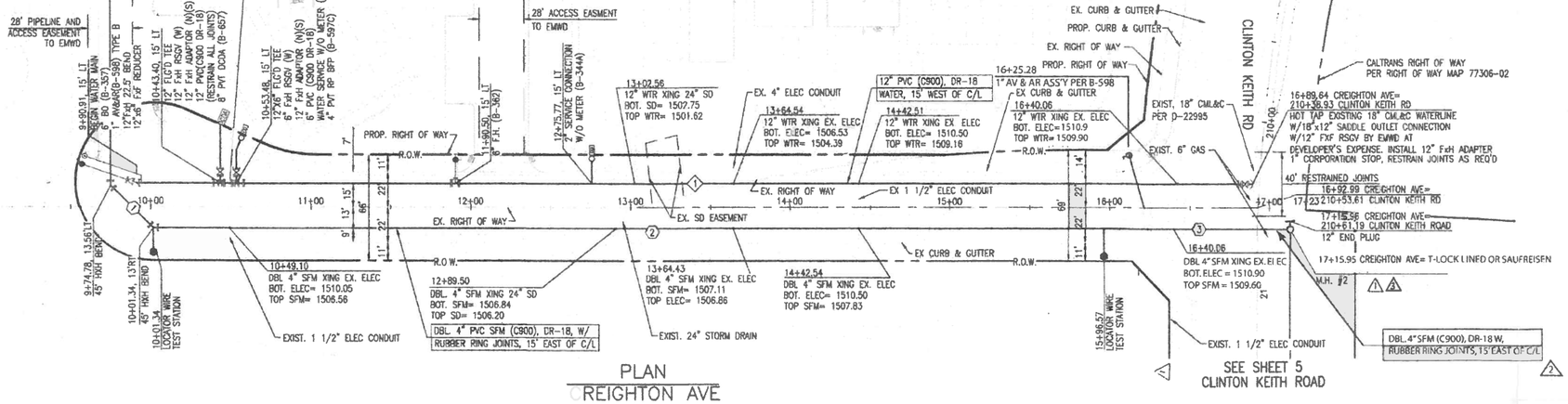
I.D.	23/22
S.A.	43/34
W.O.	13-267
C.O.	68774/75
COORD.	13A&C 18C
SHT	3 OF 7
	D- 45892

N:\Projects\13W0-115\



* INDICATES 20' NO JOINTS (WATER MAIN & FORCE MAIN) WITH CDF PER EMWD SPECS.

PROFILE
CREIGHTON AVE
SCALE: HORIZ 1"= 40'
VERT. 1"= 4'



PLAN
CREIGHTON AVE

NOTE: CONTRACTOR TO VERIFY LOCATION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO THE START OF CONSTRUCTION.

SCALE: 1"=40'

20 0 40 80
SCALE IN FEET
1 inch = 40 ft.

SEWER DATA					
NO	BEARING/DELTA	RADIUS	LENGTH	SLOPE	SIZE/TYPE (CLASS)
1	N 44°58'01" E	---	37.58'	---	DBL. 4" PVC (DR-18)
2	N 00°01'38" W	---	597.23'	---	DBL. 4" PVC (DR-18)
3	N 00°07'30" E	---	117.38'	0.0050	12" SEWER

WATER DATA AWWA C900				
NO	BEARING/DELTA	RADIUS	LENGTH	SIZE/TYPE (CLASS)
1	N00°01'38"W	---	598.73'	12" PVC (DR-18)

NOTE:
ALL TRENCH CUTS IN EXISTING PAVEMENT TO COMPLY WITH CITY OF MURRIETA TRENCH BACKFILL AND SURFACE RESTORATION STANDARD DRAWING NO. 212a

2 DELTA 1 REVISION BY:
&DELTA 2
RICHARD VALDEZ 6.24.14
RICHARD VALDEZ
VSL ENGINEERING

REGISTERED PROFESSIONAL ENGINEER RICHARD L. VALDEZ No. 48080 Exp. 12-31-2015 CIVIL STATE OF CALIFORNIA

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PLANS PREPARED BY:
BURKETT&WONG ENGINEERS
ENGINEERS & SURVEYORS
3434 Fourth Ave. San Diego CA. 92103-5704 * (619) 299-5560
CARL M. FIORICA R.C.E No. 64715 2/24/14 DATE

REGISTERED PROFESSIONAL ENGINEER CARL M. FIORICA No. 64715 Exp. 09-30-15 CIVIL STATE OF CALIFORNIA

REVISIONS				
NO.	DATE	INITIALS	DESCRIPTION	APP'D/DATE
1	6.24.14	RV	REV SEWER LOCATION CLINTON KEITH RD PER CONFLICTS	AGA 6/25/14
2	7/30/14	RV	REVISE SEWER & WATER PROFILES AT ELEC X-ING 16+40.06	AGA 9/15/15
3	8/4/16	PD	AS CONST. C.O. 68774/15 (C.R. 5/18/2016)	MS 11/6/17

REFERENCES

WATER/SEWER/SEWER FORCE MAIN APPROVED BY:
EASTERN MUNICIPAL WATER DISTRICT
CIVIL ENGINEER OF SUBDIVISIONS 2/25/14 DATE

APPROVALS

	INITIALS	DATE
PROJECT ENG.		2/25/14

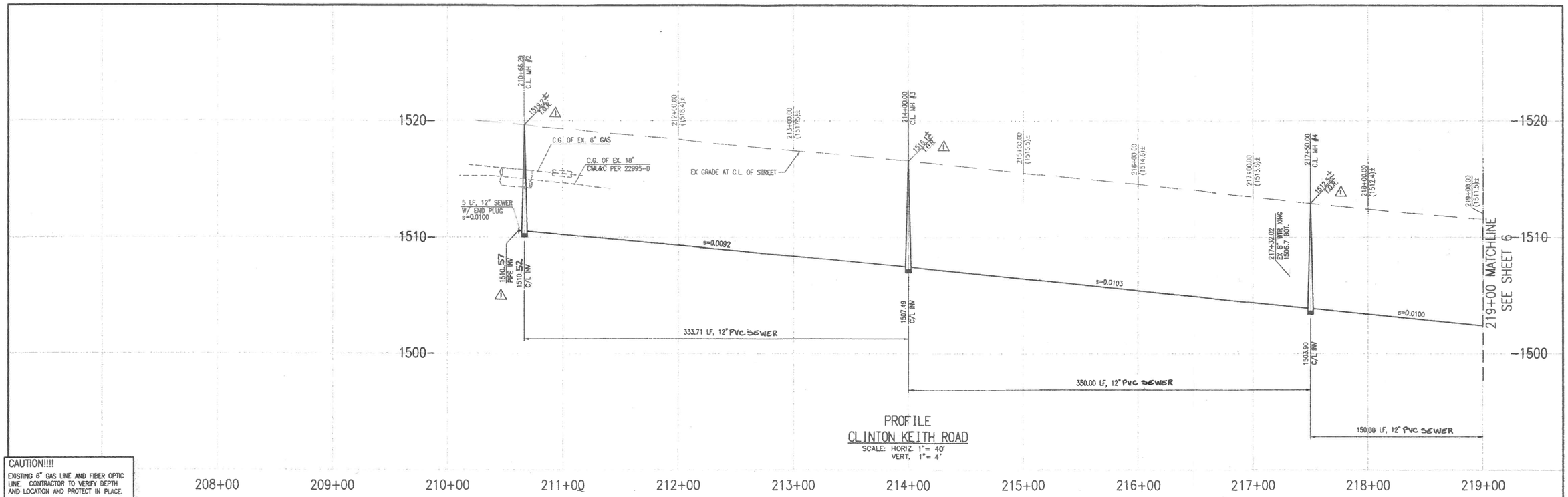
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DESIGNED:	BWE	
DRAWN:	BWE	
CHECKED:	BWE	
SUBMITTED:	BWE	
SCALE: 1"=40'		

EASTERN MUNICIPAL WATER DISTRICT
CITY OF MURRIETA

PACIFIC LANDING
SEWER, WATER AND SEWER FORCE MAIN
PLAN AND PROFILE
CREIGHTON AVENUE
10+00 – 17+12.96

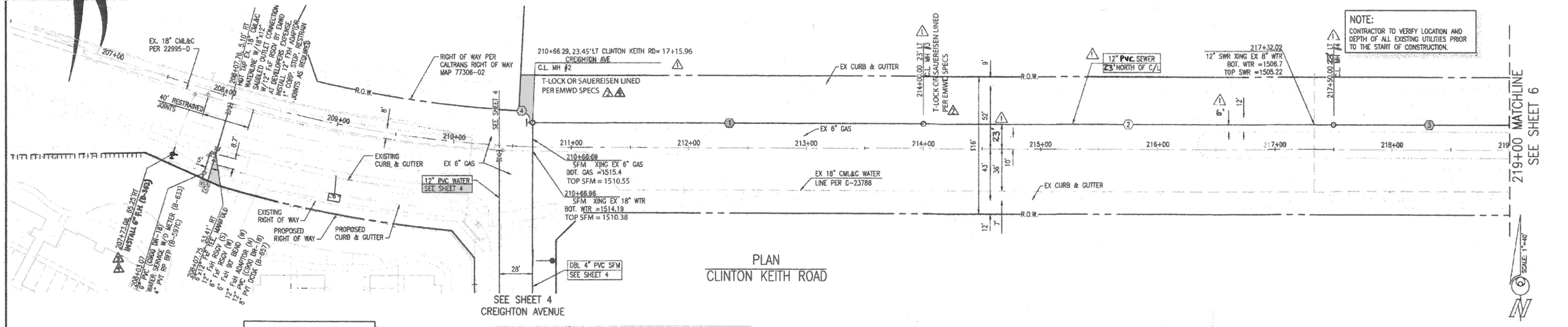
I.D.	23/22
S.A.	43/34
W.O.	13-267
C.O.	68774/15
COORD.	13A&C 18C
SHT	4 OF 7
	D-45893

3



PROFILE
CLINTON KEITH ROAD
SCALE: HORIZ. 1"= 40'
VERT. 1"= 4'

CAUTION!!!!
EXISTING 6" GAS LINE AND FIBER OPTIC LINE. CONTRACTOR TO VERIFY DEPTH AND LOCATION AND PROTECT IN PLACE.



PLAN
CLINTON KEITH ROAD

NOTE:
CONTRACTOR TO VERIFY LOCATION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO THE START OF CONSTRUCTION.

CLINTON KEITH ROAD MEDIAN AND WIDENING IMPROVEMENTS PER SEPARATE PERMIT

SEWER DATA

NO.	BEARING/DELTA	RADIUS	LENGTH	SLOPE	SIZE
1	N 89°52'30" W	---	333.71'	0.0092	12" SEWER
2	N 89°52'30" W	---	350.00'	0.0103	12" SEWER
3	N 89°52'30" W	---	150.00'	0.0100	12" SEWER
4	N 89°52'30" W	---	5.00'	0.0100	12" SEWER

NOTE:
ALL TRENCH CUTS IN EXISTING PAVEMENT TO COMPLY WITH CITY OF MURRIETA TRENCH BACKFILL AND SURFACE RESTORATION STANDARD DRAWING NO. 212o

20 0 40 80
SCALE IN FEET
1 inch = 40 ft.

REGISTERED PROFESSIONAL ENGINEER RICHARD L. VALDEZ No. 45060 Exp. 12-31-2015 CIVIL STATE OF CALIFORNIA

DELTA 1 REVISION BY:
RICHARD VALDEZ 6.24.14
RICHARD VALDEZ
VSL ENGINEERING

△ SEWER LOCATION MOVED FROM 21' NORTH OF C/L TO 23' NORTH OF C/L

UNDERGROUND SERVICE ALERT
CALL: TOLL FREE
811
TWO WORKING DAYS BEFORE YOU DIG

PLANS PREPARED BY:
BURKETT&WONG ENGINEERS
ENGINEERS & SURVEYORS
3434 Fourth Ave. San Diego CA.
92103-5704 * (619) 299-5550
CARL M. FIORICA R.C.E No. 64715 2/24/14 DATE

REGISTERED PROFESSIONAL ENGINEER CARL M. FIORICA No. 64715 Exp. 06-30-15 CIVIL STATE OF CALIFORNIA

NO.	DATE	INITIALS	DESCRIPTION	APP'D/DATE
1	6.24.14	RV	REV SEWER LOCATION CLINTON KEITH RD. PER CONFLICTS	AGA 6/25/14
2	7/30/14	RV	ADD LINING MH 2 & MH3	AGA 7/15/15
3	8/5/16	BL	REPLACE EXISTING BLOWOFF WITH A FIRE HYDRANT	AGA 8/9/16
4	12/29/16	PD	AS CONST. C.O. 68774/75 (CR. 5/18/2016)	MS 1/5/17

REFERENCES

WATER/SEWER/SEWER FORCE MAIN APPROVED BY:
EASTERN MUNICIPAL WATER DISTRICT
CIVIL ENGINEER OF SUBDIVISIONS 2/25/14 DATE

APPROVALS	INITIALS	DATE
PROJECT ENG.		

	DATE
DESIGNED: BWE	
DRAWN: BWE	
CHECKED: BWE	
SUBMITTED: BWE	

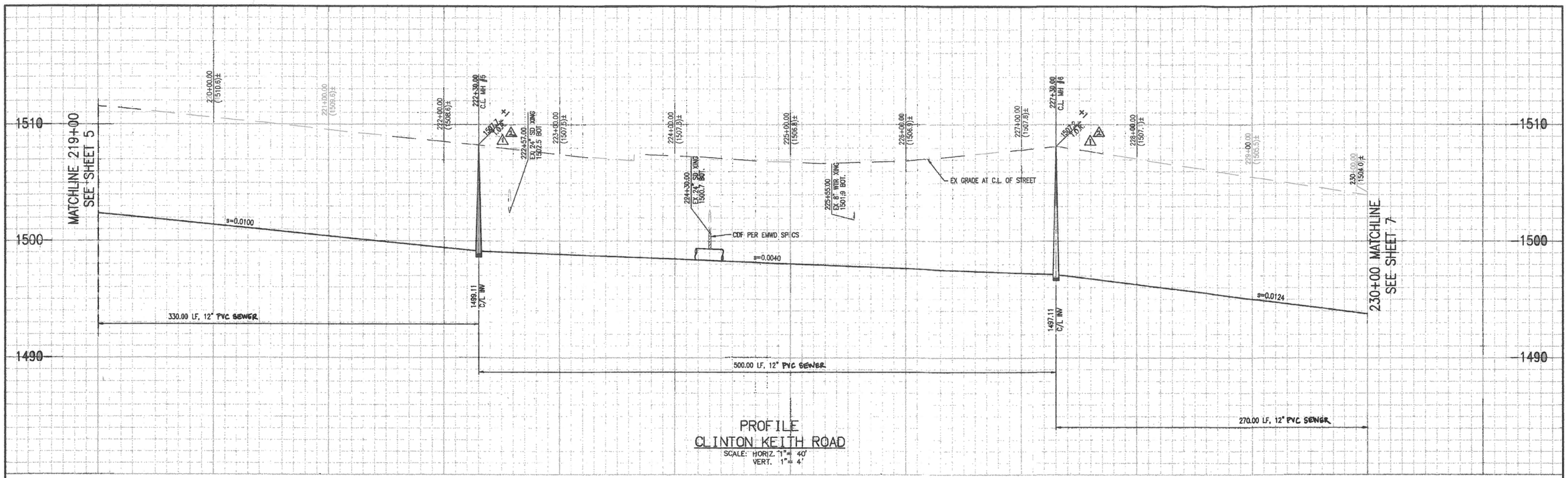
SCALE: 1"=40'

EASTERN MUNICIPAL WATER DISTRICT
CITY OF MURRIETA

PACIFIC LANDING
SEWER AND WATER
PLAN AND PROFILE
CLINTON KEITH ROAD
208+00 - 219+00

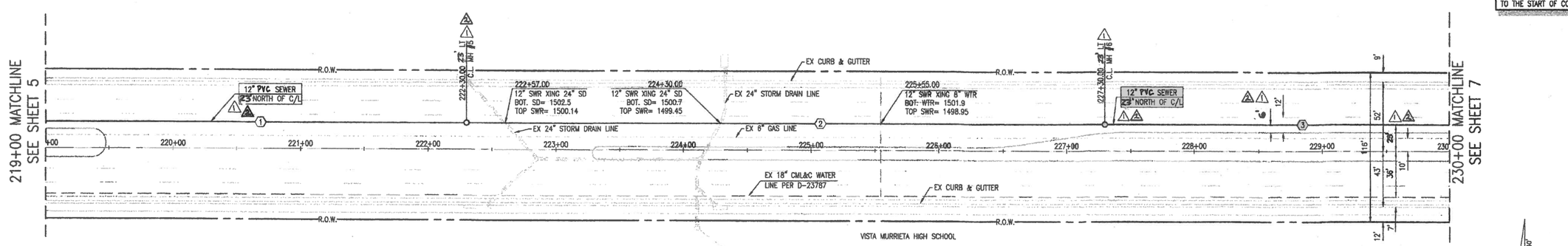
I.D.	23/22
S.A.	43/34
W.O.	13-267
C.O.	68774/75
COORD.	13A&C 18C
SHT	5 OF 7
	D-45894

△2



PROFILE
CLINTON KEITH ROAD
SCALE: HORIZ. 1"= 40'
VERT. 1"= 4'

NOTE:
CONTRACTOR TO VERIFY LOCATION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO THE START OF CONSTRUCTION.



PLAN
CLINTON KEITH ROAD
SCALE: 1"= 40'

SEWER DATA					
NO	BEARING/DELTA	RADIUS	LENGTH	SLOPE	SIZE
1	N 89°52'30" W	---	330.00'	0.0100	12" SEWER
2	N 89°52'30" W	---	500.00'	0.0040	12" SEWER
3	N 89°52'30" W	---	270.00'	0.0124	12" SEWER

NOTE:
ALL TRENCH CUTS IN EXISTING PAVEMENT TO COMPLY WITH CITY OF MURRIETA TRENCH BACKFILL AND SURFACE RESTORATION STANDARD DRAWING NO. 212a

SCALE: 1"=40'
20 0 40 80
SCALE IN FEET
1 Inch = 40 ft.

REGISTERED PROFESSIONAL ENGINEER RICHARD L. VALDEZ No. 48080 Exp. 12-31-2015 CIVIL STATE OF CALIFORNIA

Delta 1 Revision By:
Richard Valdez 6.24.14
Richard Valdez
VSL Engineering

⚠⚠ Sewer Location Moved From 21' North of ℄ To 23' North of ℄

UNDERGROUND SERVICE ALERT
DIG ALERT IDENTIFICATION CALL BEFORE YOU DIG
CALL: TOLL FREE 811
TWO WORKING DAYS BEFORE YOU DIG

PLANS PREPARED BY:
BURKETT&WONG ENGINEERS
ENGINEERS & SURVEYORS
3434 Fourth Ave. San Diego CA.
92103-5704 * (619) 299-5550
CARL M. FIORICA R.C.E No. 64715
2/24/14 DATE

REGISTERED PROFESSIONAL ENGINEER CARL M. FIORICA No. 64715 Exp. 06-30-16 CIVIL STATE OF CALIFORNIA

REVISIONS				
NO.	DATE	INITIALS	DESCRIPTION	APP'D/DATE
⚠	6-24-14	RV	Rev. Sewer Location Clinton Keith Rd Per Conflicts	ASA 6/25/14
⚠	8/4/16	PD	As const. C.O. 68774/75 (C.R. 5/10/2016)	MS 11/3/17

REFERENCES

WATER/SEWER/SEWER FORCE MAIN APPROVED BY:
EASTERN MUNICIPAL WATER DISTRICT
CIVIL ENGINEER OF SUBDIVISIONS 2/25/14 DATE

APPROVALS

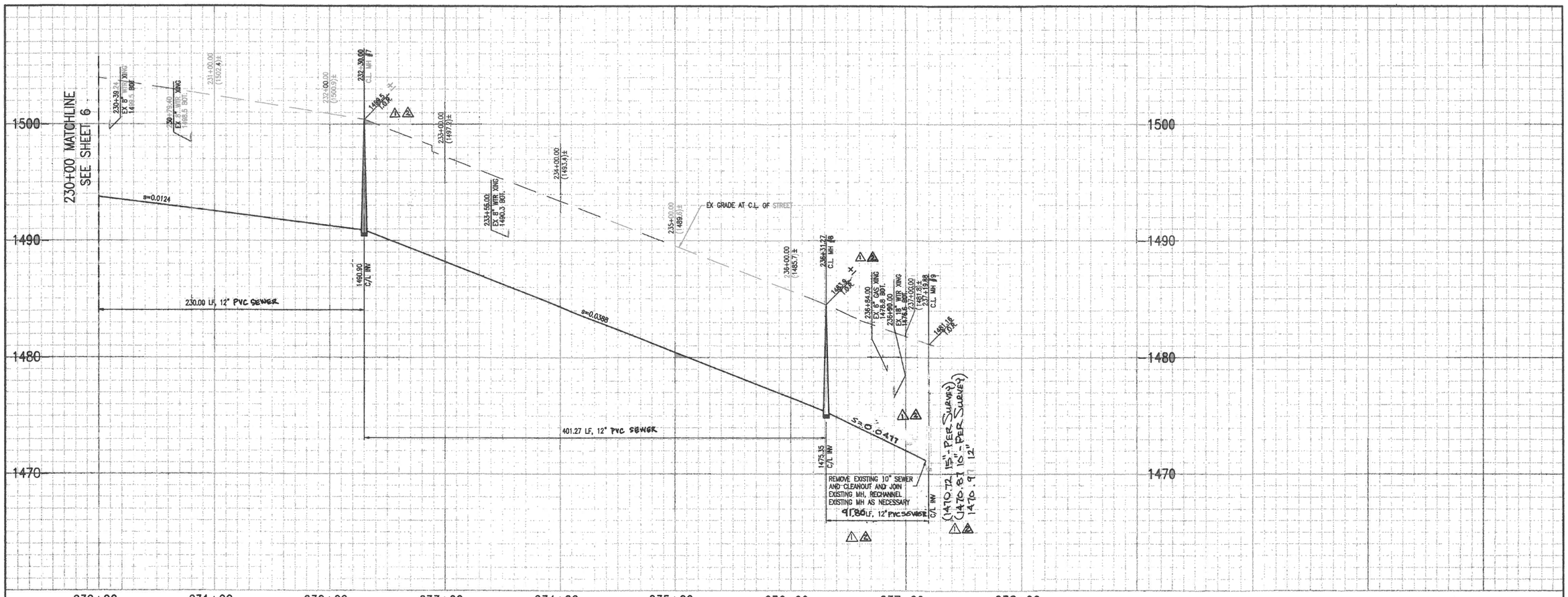
	INITIALS	DATE
PROJECT ENG.		2/25/14

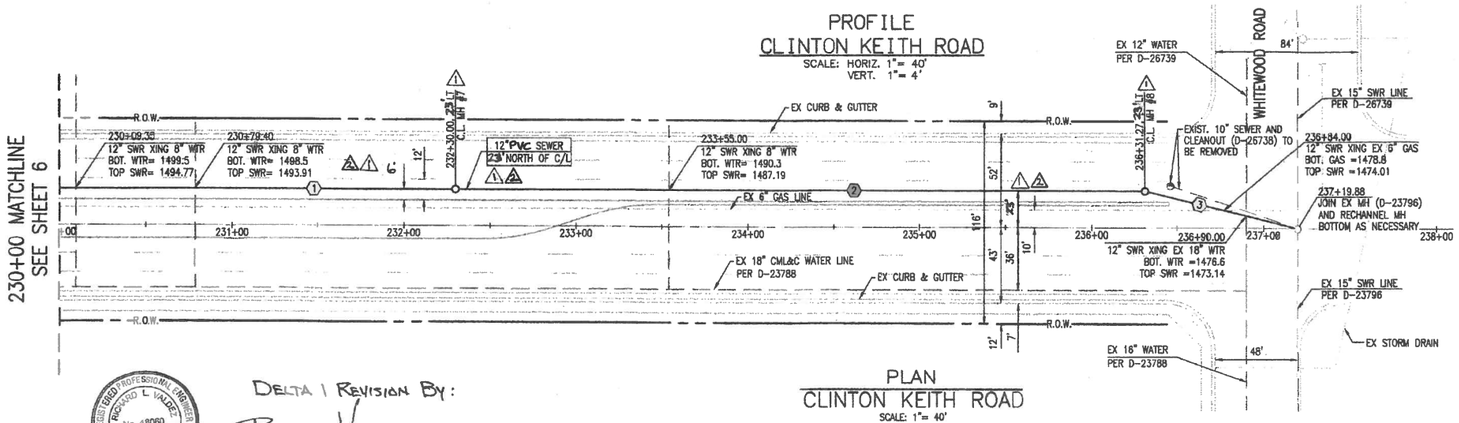
		DATE
DESIGNED:	BWE	
DRAWN:	BWE	
CHECKED:	BWE	
SUBMITTED:	BWE	
SCALE: 1"=40'		

EASTERN MUNICIPAL WATER DISTRICT
CITY OF MURRIETA
PACIFIC LANDING
SEWER
PLAN AND PROFILE
CLINTON KEITH ROAD
219+00 - 230+00

I.D.	23/22
S.A.	43/34
W.O.	13-267
C.O.	68774/75
COORD.	13A&C 18C
SHT	6 OF 7
	D-45895

⚠





SEWER DATA					
NO	BEARING/DELTA	RADIUS	LENGTH	SLOPE	SIZE
1	N 89°52'30" W	---	230.00'	0.0124	12" SEWER
2	N 89°52'30" W	---	401.27'	0.0388	12" SEWER
3	N 74°43'28" E	---	91.86	0.0477	12" SEWER

NOTE:
CONTRACTOR TO VERIFY LOCATION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO THE START OF CONSTRUCTION.

NOTE:
ALL TRENCH CUTS IN EXISTING PAVEMENT TO COMPLY WITH CITY OF MURRIETA TRENCH BACKFILL AND SURFACE RESTORATION STANDARD DRAWING NO. 212a

SCALE: 1"=40'
20 0 40 80
SCALE IN FEET
1 inch = 40 ft.

REGISTERED PROFESSIONAL ENGINEER RICHARD L VALDEZ No. 48060 Exp. 12-31-2015 CIVIL STATE OF CALIFORNIA

DELTA 1 REVISION BY:
RICHARD VALDEZ 6.24.14
RICHARD VALDEZ
VSL ENGINEERING

⚠⚠ SEWER LOCATION MOVED FROM 21' NORTH OF ℄ TO 23' NORTH OF ℄

UNDERGROUND SERVICE ALERT
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811
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PLANS PREPARED BY:
BURKETT&WONG ENGINEERS
ENGINEERS & SURVEYORS
3434 Fourth Ave. San Diego CA.
92103-5704 * (619) 299-5550
CARL M. FIORICA R.C.E No. 64715
2/24/14 DATE

REGISTERED PROFESSIONAL ENGINEER CARL M. FIORICA No. 64715 Exp. 08-30-15 CIVIL STATE OF CALIFORNIA

REVISIONS				
NO.	DATE	INITIALS	DESCRIPTION	APP'D/DATE
⚠	6.24.14	RV	REN. SEWER LOCATION CLINTON KEITH RD PER CONFLICTS	AGA 6/25/14
⚠	8/8/16	PD	AS CONST. C.O. 68774/15 (C.R. 5/16/2016)	MB 1/5/17

REFERENCES

WATER/SEWER/SEWER FORCE MAIN APPROVED BY:
EASTERN MUNICIPAL WATER DISTRICT
CIVIL ENGINEER OF SUBDIVISIONS 2/25/14 DATE

APPROVALS

	INITIALS	DATE
PROJECT ENG.		2/25/14

		DATE
DESIGNED:	BWE	
DRAWN:	BWE	
CHECKED:	BWE	
SUBMITTED:	BWE	
SCALE: 1"=40'		

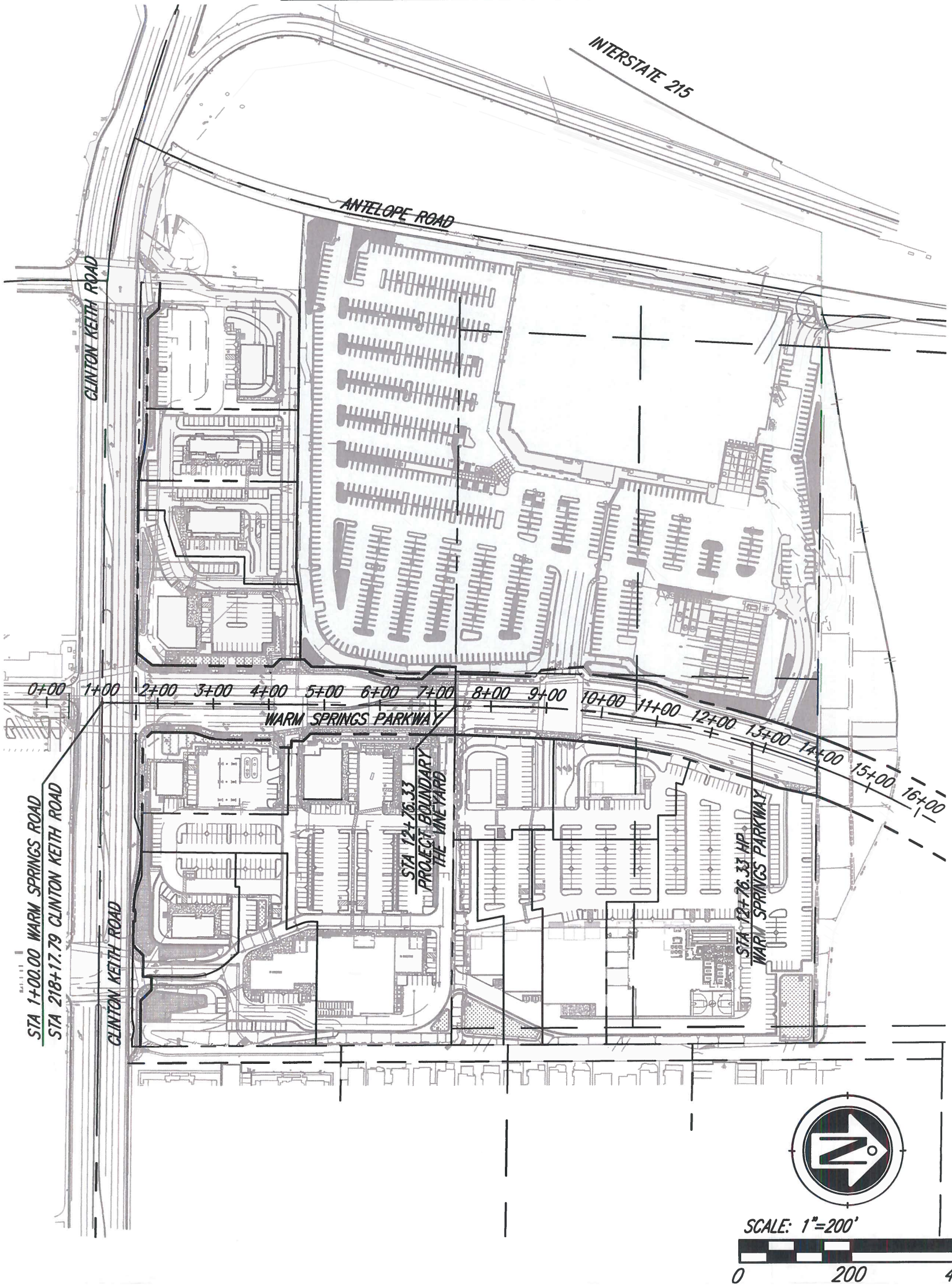
EASTERN MUNICIPAL WATER DISTRICT
CITY OF MURRIETA

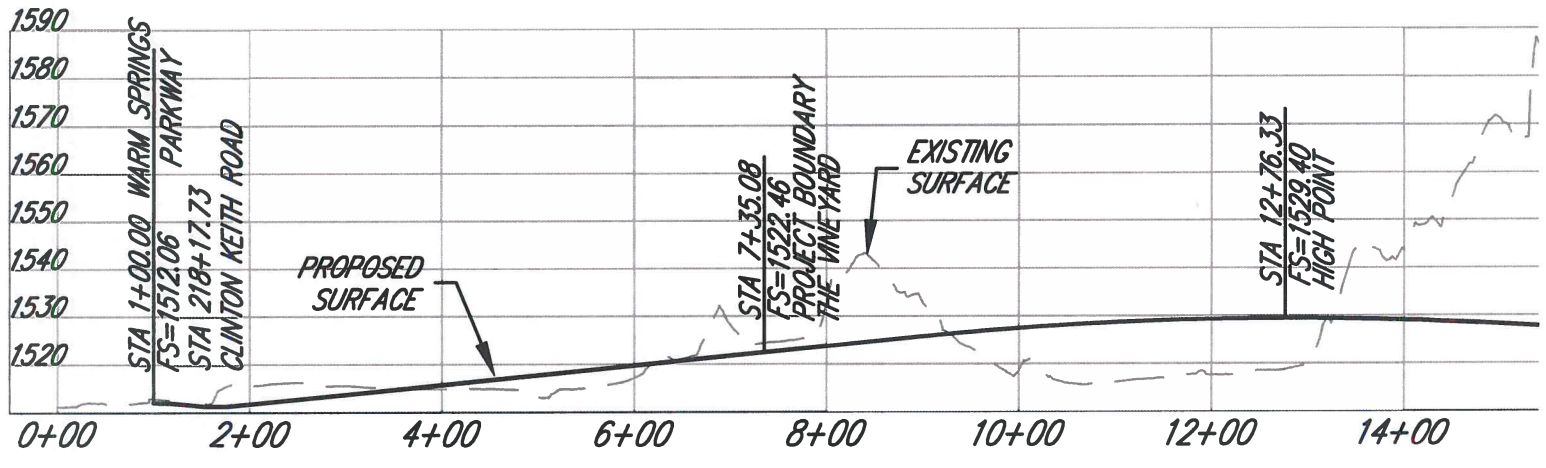
PACIFIC LANDING
SEWER
PLAN AND PROFILE
CLINTON KEITH ROAD
230+00 – 237+19.88

I.D.	23/22
S.A.	43/34
W.O.	13-287
C.O.	68774/16
COORD.	1.3A&C 18C
SHT	7 OF 7
	D-45896

⚠

WARM SPRINGS PARKWAY MASTER ALIGNMENT AND PROFILE STUDY





WARM SPRINGS PARKWAY CENTERLINE PROFILE

HORIZONTAL SCALE: 1" =200'

VERTICAL SCALE: 1" =4'

Appendix J2

Master Water Study

Water System Analysis for: The Vineyard, Curci, Costco, & Candee Properties

The following is a water system analysis for four commercial projects located on the north side of Clinton Keith Road just east of I-215 in Murrieta California. Proposed water facilities for the four developments consist of a 12" public line located in Warm Springs Parkway. Warms Springs Parkway is a public road proposed as an offsite improvement conditioned for three of the projects listed in the title line above. Additional fire and domestic services are also taken from the existing 18" public water line in Clinton Keith Road and an existing 24" line running north and south parallel to and adjacent east of I-215. This analysis consists of water demand calculations and a hydraulics analysis of proposed public facilities. Water demand calculations were completed in accordance with Eastern Municipal Water District, 2015 WFMP. Figure 1- Water Systems Analysis for The Vineyards, Curci, Costco & Candee Projects, included with this analysis, show existing and proposed water facilities for the four developments. Fire flow simulations were conducted by Eastern Municipal Water District, (EMWD). For The Vineyard, Curci and Candee projects, EMWD model assumed simultaneous flows of 1500 GPM a two locations or a total fire flow of 3000 GPM. The model shows that the existing public water system can deliver 3000 GPM at a residual pressure of 61.56 GPM. For the Costco site, a separate fire flow simulation was conducted based on a required fire flow of 4000 GPM. Both simulation summaries are attached. From calculations below it is found that the greatest demand occurs when maximum daily demand and fire flows are combined. Four separate scenarios are examined. Each scenario is described below.

Scenario 1: Referring to Figure 1, this scenario assumes domestic use by The Vineyard, Curci, Costco and Candee and a fire in The Vineyard, requiring 3000 GPM fire flow plus domestic demand. A hydraulic analysis is performed at Point F on the new 12" pipe and the fire service at Point A. Fire flow is provided at 2 points, Point A and B for the west side and Points D and E on the east side

Scenario 2: Referring to Figure 1, this scenario assumes domestic use by The Vineyard, Curci, Costco, and Candee, and a fire in property Candee, requiring 3000 GPM fire flow plus domestic demand. The analysis is again performed at Points F and I.

Scenario 3: Referring to Figure 1, this scenario assumes domestic use by Curci, and a fire in Curci, requiring 3000 GPM fire flow. The improvements are the two 8" fire services connected to the existing 24" waterline, indentified as Points G & H. Both the fire services and domestic services are fed from an existing 24" public line. Only the fire service is analyzed.

Scenario 4: Referring to Figure 1, this scenario assumes a fire at the Costco property. Two 10" fire services are proposed for the development. One fire service is proposed at the northwest corner of the project with the second service proposed on the east side at Warm Springs Parkway. The west side connection, identified as point J in Figure 1, ties an existing 24" waterline described above. The east side fire service, identified as point K in Figure 1, connects to a proposed 12 water line in Warm Springs Parkway. Scenario 4 assumes a fire flow of 2000 GPM at point J, 2000 GPM at point K, and domestic flows for all four developments.

Water Demand Calculations

Average Day Demand, ADD	**Commercial: 2,200 GPD/ GR. AC.**						
The Vineyard	11.75 AC	x	2,200	GPD/GR. AC.	=	25,850	GPD
Costco	16.42 AC	x	2,200	GPD/GR. AC.	=	36,124	GPD
Candee	9.58 AC	x	2,200	GPD/GR. AC.	=	21,076	GPD
TOTAL	**37.75 AC**	x	**2,200**	**GPD/GR. AC.**	**=**	**83,050**	**GPD**

Water Demand Calculations (Continued)

Average Day Demand, ADD	**Commercial: 2,200 GPD/ GR. AC.**						
Curci	6.65 AC	x	2,200	GPD/GR. AC.	=	14,630	GPD
The Vineyard West	4.40 AC	x	2,200	GPD/GR. AC.	=	9,680	GPD
The Vineyard East	7.25 AC	x	2,200	GPD/GR. AC.	=	15,950	GPD
Maximum Day Demand, MDD	**Commercial: 2.0 x ADD**						
The Vineyard	2.0	x	25,850	GPD	=	51,700	GPD
Costco	2.0	x	36,124	GPD	=	72,248	GPD
Candee	2.0	x	21,076	GPD	=	42,152	GPD
TOTAL	**2.0**	**x**	**83,050**	**GPD**	**=**	**166,100**	**GPD**
Curci	2.0	x	14,630	GPD	=	29,260	GPD
The Vineyard West	2.0	x	9,680	GPD	=	19,360	GPD
The Vineyard East	2.0	x	15,950	GPD	=	31,900	GPD
Peak Hour Demand, PHD	**Commercial: 2.0 x MDD**						
The Vineyard	2.0	x	51,700	**GPD**	**=**	103,400	GPD
Costco	2.0	x	72,248	**GPD**	**=**	144,496	GPD
Candee	2.0	x	42,152	**GPD**	**=**	84,304	GPD
TOTAL	**2.0**	**x**	**166,100**	**GPD**	**=**	**332,200**	**GPD**
					=	**230.69**	**GPM**
Curci	2.0	x	29,260	**GPD**	**=**	58,520	GPD
					=	**40.64**	**GPM**
The Vineyard West	2.0	x	19,360	**GPD**	**=**	38,720	GPD
					=	**26.89**	**GPM**
The Vineyard East	2.0	x	31,900	**GPD**	**=**	63,800	GPD
					=	**44.31**	**GPM**

Peak Hour Demand + Fire Flow	Commercial: PHD + FF							
The Vineyard	103,400	GPD	÷	1,440	Min/Day	=	72	
Costco	144,496	GPD	÷	1,440	Min/Day	=	100	
Candee	84,304	GPD	÷	1,440	Min/Day	=	59	GPM
TOTAL	332,200	GPD	÷	1,440	Min/Day	=	230.69	GPM
			+	3000	GPM		**3,230.69**	**GPM**

Hydraulic Calculations

Velocities and pressure loss in water pipes were calculated by Hazen-Williams Formula. The Hazen Williams formula is shown below. All three scenarios were analyzed and detailed below.

$V=1.318C(D/4)^{0.63}S^{0.54}$, Where $S=h_f/L$ and $Q=V\ \pi^2 D/4$

V=Flow Velocity (FPS)
C=Hazen Williams Coefficient, Use C=150
D=Diameter of Pipe
Q=Rate of Flow (GPM)

Maximum Flow	Pipe Diameter	Flow Velocity (FPS)	Unit Pressure Loss (psi)	Total Pressure Loss (psi)
Scenario 1:				
Points A & B or D & E Fire flow only, 3000 GPM fire flow is delivered to the site, distributed at two locations.				
3000/2 = 1500 GPM	8"	9.57	0.0128	0.77 (L=60')
At Point F: Total Demand = Fire flow of 1500 GPM plus domestic demand for The Vineyard, Costco, & Candee. Fire at the Vineyard.				
1500 GPM + 230.69 GPM = 1,730.69 GPM	12"	4.91	0.0025	2.96 (L=1,250')
Scenario 2:				
At Point F: Total Demand = Fire flow of 1500 GPM plus domestic demand for The Vineyard, Costco, & Candee. Fire at Candee.				
3000 GPM + 230.69 GPM = 3,230.69 GPM				
3,289.54 GPM	12"	9.16	0.0074	9.19 (L=1,250')
Scenario 3:				
Points G & H: Total demand = a fire flow of 3000 GPM divided by 2				
3000 /2 = 1500 GPM	8"	9.57	0.0128	0.77 (L=60')
Scenario 4:				
Points J & K: Total demand = a fire flow of 4000 GPM divided by 2				
4000 /2 = 2000 GPM	10"	8.17	0.0074	0.48 (L=66')
Point F: Total demand = a fire flow of 4000 GPM divided by 2 plus domestic for The Vineyard East & West, Candee and Costco				
2000 GPM + 230.69 GPM = 2,230.69 GPM	12"	6.33	0.0037	4.63(L=1250')

Summary

Calculations were performed under 4 scenarios assumed to be points where maximum flow would occur. Referring to Figure 1 and calculations on previous pages, Scenario 2, flow at Point F was found to be the greatest. With a fire flow of 3000 GPM and domestic demand of 230.69 gpm, or a total flow of 3,230.69 GPM, maximum velocities we found to be 9.33 FPS. Calculations indicate a pressure drop at point I to be 9.19 psi. From fire flow tests, assuming a residual pressure of 60 psi at point F and a pressure drop of 9.19 psi residual pressure at the very north end of the proposed 12" water line is calculated to be 50.8 psi. Scenarios 1, 3, & 4 examined fire flows only. With 8" laterals proposed, maximum flows of 1500 GPM yielded velocities of 9.57 FPS. While maximum velocities at relatively high, 9.57 FPS is well within acceptable levels for materials proposed. Scenario 4 analyzed flows in 10" laterals. Resulting calculations showed that with fire flows of 2000 GPM per service velocities of 8.17 FPS are anticipated. With a minimum requirement of 20 psi residual, the proposed 12" water main and 8" and 10" fire services will convey maximum day demand combined with fire flows.

Prepared Under My Supervision

4/03/20

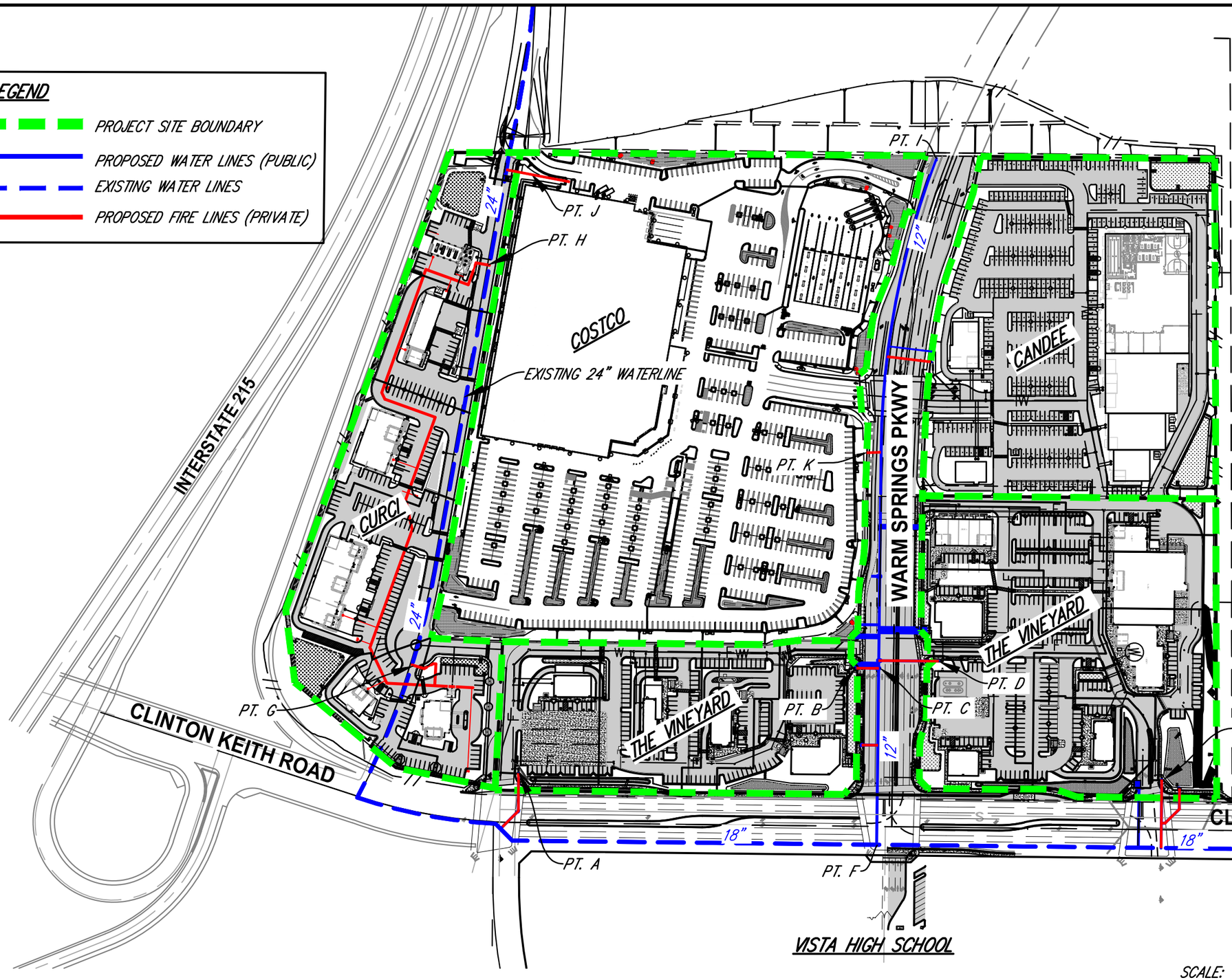
Robert D. Dentino RCE — Date



V:\16\16063\Documents\EMWD Plan of Service\Sewer Study Costco, Curci, Candee\Current Sewer Water Study-8-9-2019\16-063-Water-Study-Exhibit.dwg 9/4/2019 5:06 PM ORIGINAL PLOT SIZE: PDF 11X17

LEGEND

- PROJECT SITE BOUNDARY
- PROPOSED WATER LINES (PUBLIC)
- EXISTING WATER LINES
- PROPOSED FIRE LINES (PRIVATE)



SITE AREA TABLE	
SITE	AREA (AC.)
THE VINEYARD	11.65
COSTCO	26.05
CURCI	6.65
CANDEE	9.58

AREA TABLE

SITE	AREA (AC.)	
	WEST	EAST
THE VINEYARD	4.40	7.25
THE VINEYARD (TOTAL)	11.73	
COSTCO	26.05	
CURCI	6.65	
CANDEE	9.58	

SCALE: 1"=200'

0 200 400 600 800

FIGURE 1 – WATER SYSTEMS ANALYSIS FOR THE VINEYARD, CURCI, COSTCO & CANDEE PROJECTS

emwd EASTERN MUNICIPAL WATER DISTRICT

COMPUTER MODEL TEST

Grid Number:	13A	Date:	12-6-2017
Customer Name:	CK 17 The Vineyards	Address:	41623 Margarita Road # 100
City, State Zip:	Temecula, CA 92591		
Contact Name:	Allan Davis		
Phone:	(951) 491-6309	Cell:	(760) 518-0660
Fax:		Email:	ADAVIS@RETAILDEVELOPMENTADVISORS.COM
Project Record Number:	WS20170001142	WO/CO:	WO 15777
Project Name:	The Vineyards	APN:	392-290-051
(Approximate) Test & Hydrant Location:	(1) 49 feet East of the intersection of Whitewood Rd. & Clinton Keith Rd. (2) 782 feet East of the intersection of Whitewood Rd. & Clinton Keith Rd.		
MODEL	NBD_EMWD_POTABLE_20170321_POS FF Diurnal_v1		

POC Test Location:	EMWD RESULTS			Requested	Flow Availability for Fire Department
	Fire Flow POC 1	Fire Flow POC 2		Requested	
Elevation (Ft):	1,520	1,516			
Steady State, Dynamic (psi):	72.50	74.29			
Residual Pressure (psi):	60	61.56			
Tested FF(gpm):	1,500	1,500			
Combined Total (gpm):	Fire Flow 3,000 / MDD 23 at POC 1 & 2			3,000	
Number of Hydrants:	Used 2 Test Nodes			2	
Duration Tested @:	3 Hour			3	
Demand Conditions:	Max Day				
Pressure Zone/Tank Names(s)/Level(s):	PZ 1698K Keller Tank I - Base Elevation 1660 Feet				
Pump Operating Status:	ON		Computer Model Setting	EPS	

Number of Points of connections (POC):	POC (Circle One)		Reason (Circle what Applies)				
	One	Two or More	Plan of Service	Limited Capacity (Existing Systems)	Supply Redundancy	Conditions of Approval	Fire Sprinkler Connection(s)

Comments: The water system is capable of providing 3,023 GPM for 3 hours at a minimum of 20 psi, as shown in the attached map. These Fire Flow test results may need to be complemented by a Plan of Service and do not include all facility conditioning that may be required for this project. Fire Flow Requirements or COA's were not provided, if any Fire Flow changes occur in the COA, you may need to resubmit another Fire Flow test at the requester's expense.

The above results are not a guarantee the District's system will supply water to the project at any specific flows or pressures. These results were determined from a computer simulation of the District's water system and/or from hydraulic calculations pertaining to distribution pipelines: The capacity of the service laterals, meters, backflow assemblies, on-site fire system, and other appurtenances were not considered in these results. The design and sizing of service laterals and downstream facilities shall be the responsibility of the Project Sponsor.

EMWD's Fire Flow test results are valid for 12 months from the date of testing.

Completed By: RUDY ESPARZA

Should you have any questions or need additional information, please contact me at (951) 928-3777, ext. 4478.

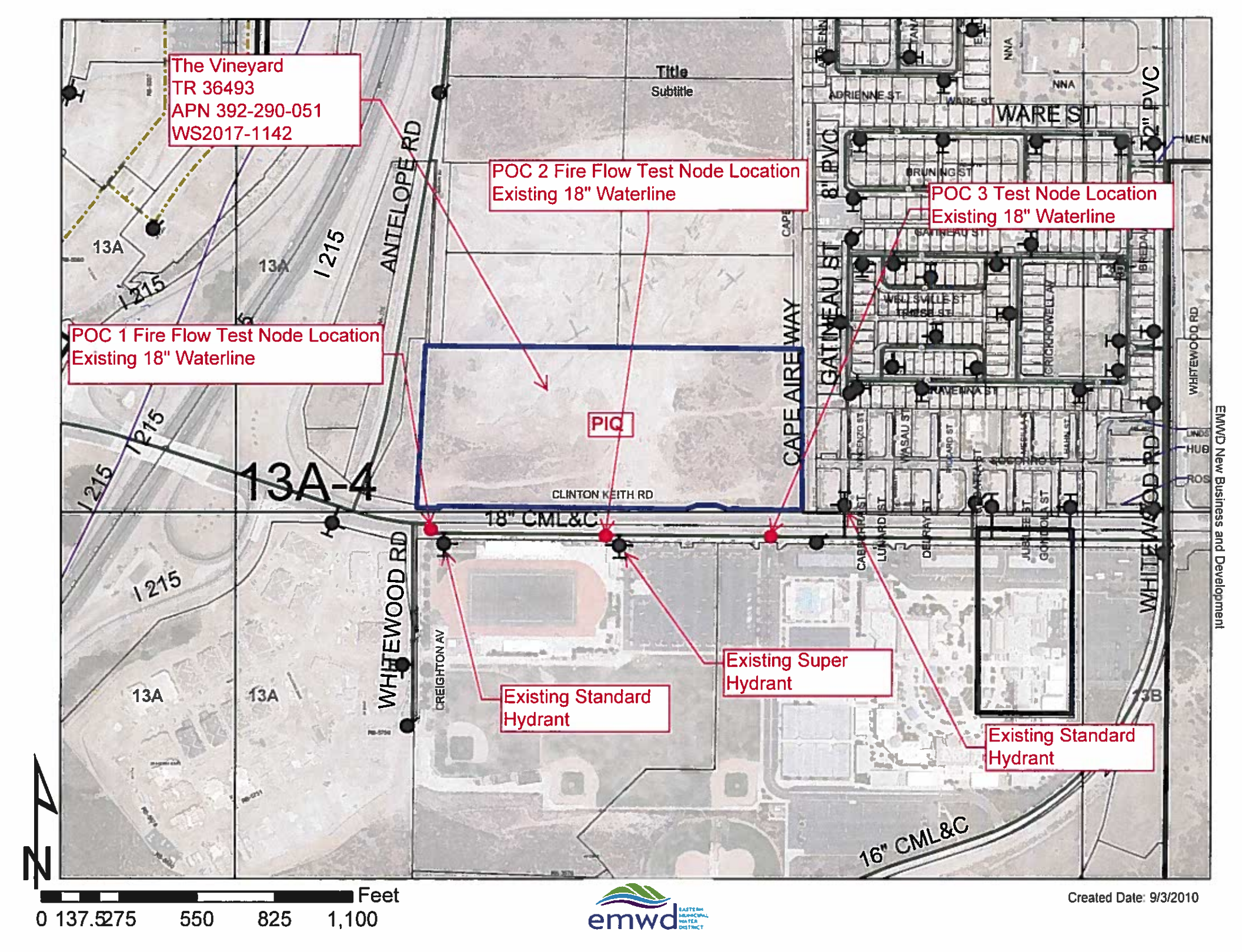
Sincerely, RE

Rudy Esparza
Sr. Engineering Technician
New Business Development

Date: 12-6-2017

Reviewed By: EC

Date: 12/6/17


The Vineyard
TR 36493
APN 392-290-051
WS2017-1142
POC 1 Fire Flow Test Node Location
Existing 18" Waterline
POC 2 Fire Flow Test Node Location
Existing 18" Waterline
POC 3 Test Node Location
Existing 18" Waterline
PIQ
13A-4
CLINTON KEITH RD
18" CML&C
16" CML&C
ANTELOPE RD
WHITEWOOD RD
CAPE AIRE WAY
GATINEAU ST
WARE ST
ADRIENNE ST
BRUNING ST
CREIGHTON AV
Existing Super Hydrant
Existing Standard Hydrant
Existing Standard Hydrant
13A
13B
I 215
8" PVC
12" PVC
N
Feet
0 137.5 275 550 825 1,100
emwd
Created Date: 9/3/2010
EMWD New Business and Development

Hydraulic Boundary Conditions, In The Main Water Pipeline[6][7], Based on Hydraulic Model Results

Project Name: THE VINYARD WS2017-1142
Pressure Zone: 1698K
Model Version (12)POS 20170321_POS FF Diurnal_v1

ADD (GPM): 11
FFD (GPM): 1,500
Duration (Hours): 3

POC Location: POC-1
Elevation (ft): 1,520.0
APN / TR: / WO 392-290-051 TR 36493 WO 15777 (See Attached Exhibit)

	Modeling Scenario (12)	Operational Conditions:	Project Demands[2][3][11] (gpm): Project's Domestic Water Demands[2][3][11] (gpm)	Project Demands[2][3][11] (gpm): Fire Flow Demand[4] (gpm)	Existing system (With No Improvements): HGL (ft)	Existing system (With No Improvements): Pressure (psi)	Existing system (With Improvements)[1]: HGL (ft)	Existing system (With Improvements)[1]: Pressure (psi)
Operational Demand	EPS, MDD, Pumps On (8)	MDD	23		1,687	73		
Operational Demand	EPS, MDD, Pumps On (8)	PHD	45		1,659	60		
Operational Demand	EPS, ADD, Pumps On (8)	MHD						
Fire Flow Demand		FFD + MDD						
Fire Flow Demand	EPS, MDD, Pumps On (8)	FFD + MDD	23	1,500	1,659	60		

Footnotes (see page 2 for additional footnotes):
(1) If improvements are required, please describe the improvements here:

Minimum Pressure Criteria:

50 PSI	...under PHD, MDD, and MHD
20 PSI	...under MDD + FFD

Minimum Criteria, Velocities in Pipelines:
Equal to or less than 5 fps: ...for MDD
Equal to or less than 10 fps: ...for PHD
Equal to or less than 15 fps: ...for FF + MDD

	Adequate?	Comments:
Available Firm Pumping Capacity:	YES	
Available Firm Pumping Capacity, w/ Electrical Outage :	YES	
Available Storage Capacity:	YES	

Additional Comments:

Prepared by: Rudy Esparza
Date: 12/6/2017

Reviewed by: EC
Date: 12/6/17

File: PZ 1698K TR 36493 THE VINYARD APN 392-290-051 WO 15777 WS2017-1142 POC-1.xlsx
FORM: NBD-068 (July 25, 2016) --- Date Printed: 12/6/2017, 9:42 AM

Hydraulic Boundary Conditions, In The Main Water Pipeline[6][7], Based on Hydraulic Model Results			
Project Name: THE VINYARD WS2017-1142	**ADD (GPM):**	11	
Pressure Zone: 1698K	**FFD (GPM):**	1,500	
Model Version (12)POS 20170321_POS FF Diurnal_v1	**Duration (Hours):**	3	

Acronyms:

ADD: Average Day Demand, in GPM
EPS: Extended Period Simulation
FFD[3]: Fire Flow Demand, in GPM
FPS: Feet per second
GPM: Gallons Per Minute
HGL: Hydraulic Grade-Line, in feet
MDD: Maximum Day Demand, in GPM
MHD: Minimum Hour Demand, in GPM
PHD: Peak-Hour Demand, in GPM
POC: Point Of Connection
PSI: Pounds Per Inch
SSS: Steady State Simulation

Footnotes (Ct'd):

(2) Project Demands include ADD of the proposed project, peaked for each test scenario, in accordance with the latest EMWD Water Master Plan Design Criteria

(3) Domestic water demands from existing services are already included in the Model

(4) This is NOT a Fire Flow Test Report: The customer shall verify with the Fire Marshall if a separate Fire Flow Test Report/Letter is required for Jurisdictional Project approval.

(5) All required storage and pumping shall be evaluated in a POS report, per the latest EMWD Master Plan Design Criteria

(6) Applicants, or their designees, shall design service laterals, commencing from the point of connection(s) in EMWD's main pipeline(s), including main extension(s), lateral(s), meter(s), and all post-meter appurtenances, taking into consideration resulting head losses, pad elevations, and building height, such that the pressure delivered to each floor level and service is adequate to meet jurisdictional requirements.

(7) In addition to design requirements, operational minimum and maximum pressures are used to identify and record Service Agreements for Low and High pressure conditions in Residential use. Commercial, Institutional, and Industrial uses do not require low and high pressure recordation.

(8) Storage tanks: Initial levels set at 75% full in EPS

(9) Storage tanks: Initial levels set at 50% full in SSS, Pumps Off

(10) Storage tanks: Initial levels set at 50% full in SSS, Pumps On

(11) Existing demands are based on COINS data, calendar-year 2013

(12) For EPS modeling, use file name: ***NBD_EPS_EMWD_POTABLE_2308_WYA20151019.mxd***

Hydraulic Boundary Conditions, In The Main Water Pipeline[6][7], Based on Hydraulic Model Results

Project Name: THE VINYARD WS2017-1142
Pressure Zone: 1698K
Model Version (12) POS 20170321_POS FF Diurnal_v1

ADD (GPM): 11
FFD (GPM): 1,500
Duration (Hours): 3

POC Location: POC-2
Elevation (ft): 1,516.0
APN / TR: / WO 392-290-051 TR 36493 WO 15777 (See Attached Exhibit)

	Modeling Scenario (12)	Operational Conditions:	Project Demands[2][3][11] (gpm): Project's Domestic Water Demands[2][3][11] (gpm)	Project Demands[2][3][11] (gpm): Fire Flow Demand[4] (gpm)	Existing system (With No Improvements): HGL (ft)	Existing system (With No Improvements): Pressure (psi)	Existing system (With Improvements)[1]: HGL (ft)	Existing system (With Improvements)[1]: Pressure (psi)
Operational Demand	EPS, MDD, Pumps On (8)	MDD	23		1,687	74		
Operational Demand	EPS, MDD, Pumps On (8)	PHD	45		1,658	62		
Operational Demand	EPS, ADD, Pumps On (8)	MHD						
Fire Flow Demand		FFD + MDD						
Fire Flow Demand	EPS, MDD, Pumps On (8)	FFD + MDD	23	1,500	1,658	61		

Footnotes (see page 2 for additional footnotes):
(1) If improvements are required, please describe the improvements here:

Minimum Pressure Criteria:

50 PSI	...under PHD, MDD, and MHD
20 PSI	...under MDD + FFD

Minimum Criteria, Velocities in Pipelines:
Equal to or less than 5 fps: ...for MDD
Equal to or less than 10 fps: ...for PHD
Equal to or less than 15 fps: ...for FF + MDD

	Adequate?	Comments:
Available Firm Pumping Capacity:	YES	
Available Firm Pumping Capacity, w/ Electrical Outage :	YES	
Available Storage Capacity:	YES	

Additional Comments:

Prepared by: Rudy Esparza
Date: 12/6/2017

Reviewed by: EC
Date: 12/6/17

File: PZ 1698K TR 36493 THE VINYARD APN 392-290-051 WO 15777 WS2017-1142 POC-2.xlsx
FORM: NBD-068 (July 25, 2016) --- Date Printed: 12/6/2017, 9:41 AM

Hydraulic Boundary Conditions, In The Main Water Pipeline[6][7], Based on Hydraulic Model Results

Project Name: THE VINYARD WS2017-1142	**ADD (GPM):**	11
Pressure Zone: 1698K	**FFD (GPM):**	1,500
Model Version (12)POS 20170321_POS FF Diurnal_v1	**Duration (Hours):**	3

Acronyms:

ADD: Average Day Demand, in GPM
EPS: Extended Period Simulation
FFD[3]: Fire Flow Demand, in GPM
FPS: Feet per second
GPM: Gallons Per Minute
HGL: Hydraulic Grade-Line, in feet
MDD: Maximum Day Demand, in GPM
MHD: Minimum Hour Demand, in GPM
PHD: Peak-Hour Demand, in GPM
POC: Point Of Connection
PSI: Pounds Per Inch
SSS: Steady State Simulation

Footnotes (Ct'd):

(2) Project Demands include ADD of the proposed project, peaked for each test scenario, in accordance with the latest EMWD Water Master Plan Design Criteria

(3) Domestic water demands from existing services are already included in the Model

(4) This is NOT a Fire Flow Test Report: The customer shall verify with the Fire Marshall if a separate Fire Flow Test Report/Letter is required for Jurisdictional Project approval.

(5) All required storage and pumping shall be evaluated in a POS report, per the latest EMWD Master Plan Design Criteria

(6) Applicants, or their designees, shall design service laterals, commencing from the point of connection(s) in EMWD's main pipeline(s), including main extension(s), lateral(s), meter(s), and all post-meter appurtenances, taking into consideration resulting head losses, pad elevations, and building height, such that the pressure delivered to each floor level and service is adequate to meet jurisdictional requirements.

(7) In addition to design requirements, operational minimum and maximum pressures are used to identify and record Service Agreements for Low and High pressure conditions in Residential use. Commercial, Institutional, and Industrial uses do not require low and high pressure recordation.

(8) Storage tanks: Initial levels set at 75% full in EPS

(9) Storage tanks: Initial levels set at 50% full in SSS, Pumps Off

(10) Storage tanks: Initial levels set at 50% full in SSS, Pumps On

(11) Existing demands are based on COINS data, calendar-year 2013

(12) For EPS modeling, use file name: ***NBD_EPS_EMWD_POTABLE_2308_WYA20151019.mxd***

Hydraulic Boundary Conditions, In The Main Water Pipeline[6][7], Based on Hydraulic Model Results

Project Name: THE VINYARD WS2017-1142
Pressure Zone: 1698K
Model Version (12)POS 20170321_POS FF Diurnal_v1

ADD (GPM): 11
FFD (GPM): 1,500
Duration (Hours): 3

POC Location: POC-3
Elevation (ft): 1,507.0
APN / TR: / WO 392-290-051 TR 36493 WO 15777 (See Attached Exhibit)

	Modeling Scenario (12)	Operational Conditions:	Project Demands[2][3][11] (gpm): Project's Domestic Water Demands[2][3][11] (gpm)	Project Demands[2][3][11] (gpm): Fire Flow Demand[4] (gpm)	Existing system (With No Improvements): HGL (ft)	Existing system (With No Improvements): Pressure (psi)	Existing system (With Improvements)[1]: HGL (ft)	Existing system (With Improvements)[1]: Pressure (psi)
Operational Demand	EPS, MDD, Pumps On (8)	MDD	23		1,683	76		
Operational Demand	EPS, MDD, Pumps On (8)	PHD	45		1,643	59		
Operational Demand	EPS, ADD, Pumps On (8)	MHD						
Fire Flow Demand		FFD + MDD						
Fire Flow Demand	EPS, MDD, Pumps On (8)	FFD + MDD	No FF at this location					

Footnotes (see page 2 for additional footnotes):
(1) If improvements are required, please describe the improvements here:

Minimum Pressure Criteria:

50 PSI	...under PHD, MDD, and MHD
20 PSI	...under MDD + FFD

Minimum Criteria, Velocities in Pipelines:
Equal to or less than 5 fps: ...for MDD
Equal to or less than 10 fps: ...for PHD
Equal to or less than 15 fps: ...for FF + MDD

	Adequate?	Comments:
Available Firm Pumping Capacity:	YES	
Available Firm Pumping Capacity, w/ Electrical Outage :	YES	
Available Storage Capacity:	YES	

Additional Comments:

Prepared by: Rudy Esparza
Date: 12/6/2017

Reviewed by: SC
Date: 12/6/17

File: PZ 1698K TR 36493 THE VINYARD APN 392-290-051 WO 15777 WS2017-1142 POC-3.xlsx
FORM: NBD-068 (July 25, 2016) --- Date Printed: 12/6/2017, 9:42 AM

Hydraulic Boundary Conditions, In The Main Water Pipeline[6][7], Based on Hydraulic Model Results

Project Name: THE VINYARD WS2017-1142	**ADD (GPM):**	11
Pressure Zone: 1698K	**FFD (GPM):**	1,500
Model Version (12)POS 20170321_POS FF Diurnal_v1	**Duration (Hours):**	3

Acronyms:

ADD: Average Day Demand, in GPM
EPS: Extended Period Simulation
FFD[3]: Fire Flow Demand, in GPM
FPS: Feet per second
GPM: Gallons Per Minute
HGL: Hydraulic Grade-Line, in feet
MDD: Maximum Day Demand, in GPM
MHD: Minimum Hour Demand, in GPM
PHD: Peak-Hour Demand, in GPM
POC: Point Of Connection
PSI: Pounds Per Inch
SSS: Steady State Simulation

Footnotes (Ct'd):

(2) Project Demands include ADD of the proposed project, peaked for each test scenario, in accordance with the latest EMWD Water Master Plan Design Criteria

(3) Domestic water demands from existing services are already included in the Model

(4) This is NOT a Fire Flow Test Report: The customer shall verify with the Fire Marshall if a separate Fire Flow Test Report/Letter is required for Jurisdictional Project approval.

(5) All required storage and pumping shall be evaluated in a POS report, per the latest EMWD Master Plan Design Criteria

(6) Applicants, or their designees, shall design service laterals, commencing from the point of connection(s) in EMWD's main pipeline(s), including main extension(s), lateral(s), meter(s), and all post-meter appurtenances, taking into consideration resulting head losses, pad elevations, and building height, such that the pressure delivered to each floor level and service is adequate to meet jurisdictional requirements.

(7) In addition to design requirements, operational minimum and maximum pressures are used to identify and record Service Agreements for Low and High pressure conditions in Residential use. Commercial, Institutional, and Industrial uses do not require low and high pressure recordation.

(8) Storage tanks: Initial levels set at 75% full in EPS

(9) Storage tanks: Initial levels set at 50% full in SSS, Pumps Off

(10) Storage tanks: Initial levels set at 50% full in SSS, Pumps On

(11) Existing demands are based on COINS data, calendar-year 2013

(12) For EPS modeling, use file name: ***NBD_EPS_EMWD_POTABLE_2308_WYA20151019.mxd***

EASTERN MUNICIPAL WATER DISTRICT

COMPUTER MODEL TEST

Grid Number:	13A	**Date:**	June 19, 2019
Customer Name:	Jim Madden	**Address:**	11770 Bernardo Plaza Ct; #116
City, State Zip:	San Diego, CA 92128		
Contact Name:			
Phone:	619-488-9810	**Cell:**	858-735-1086
Fax:		**Email:**	jmadden@jensenhughes.com
Project Record Number:	WS 2019-625	**WO/CO:**	WO N/A
Project Name:	Costco Wholesale	**APN:**	392-290-028
(Approximate) Test & Hydrant Location:	POC1 - located at the northwest corner of PIQ POC2 - about 425 ft north of Clinton Keith and Antelope Road intersection Fire Hydrant - about 100 ft south of PIQ's south parcel line; PIQ: Murrieta, CA		

MODEL	NBD_EMWD_POTABLE_20170321_POS FF Diurnal_v2				
POC Test Location:	EMWD RESULTS			Requested	Flow Availability for Fire Department
	POC1	POC2	Fire Hydrant	Requested	
Elevation*:	1544.0	1550.0	1519.0		
Steady State, Dynamic (psi):	64.9	69.1	75.7		
Residual Pressure (psi):	54.3	58.4	63.7		
Tested FF (gpm):	2000.0	2000.0	4000.0		
Combined Total (gpm):	MDD 12 gpm** plus 4000 gpm fire flow			4012	
Number of Hydrants:	POC1 & POC2 tested simult., FH tested independently			2 POC's, 1 FH	
Duration Tested @:	4 hours			4	
Demand Conditions:	Max Day				
Pressure Zone/Tank Name(s)/Level(s):	1698K / Keller Tank I / Base Elevation 1660.0 ft				
Pump Operating Status:	ON	**Computer Model Setting:**	EPS		

Number of Points of connections (POC):	**POC (Circle One)**		**Reason (Circle what Applies)**				
	One	Two or More	Plan of Service	Limited Capacity (Existing System)	Supply Redundancy	Conditions of Approval	Fire Sprinkler Connection(s)

Comments: The water system is capable of providing 4012 GPM for 4 hours at a minimum of 20 psi, as shown in the attached map. These Fire Flow test results may need to be complemented by a Plan of Service and do not include all facility conditioning that may be required for this project. Fire Agency Conditions were provided (dated 05/24/19), if any Fire Flow changes occur in the Fire Agency Conditions, you may need to resubmit another Fire Flow test at the requester's expense.

The above results are not a guarantee the District's system will supply water to the project at any specific flows or pressures. These results were determined from a computer simulation of the District's water system and/or from hydraulic calculations pertaining to distribution pipelines: The capacity of the service laterals, meters, backflow assemblies, on-site fire system, and other appurtenances were not considered in these results. The design and sizing of service laterals and downstream facilities shall be the responsibility of the Project Sponsor.

EMWD's Fire Flow test results are valid for twelve months from the date of testing.

Completed By: Kris Danielson

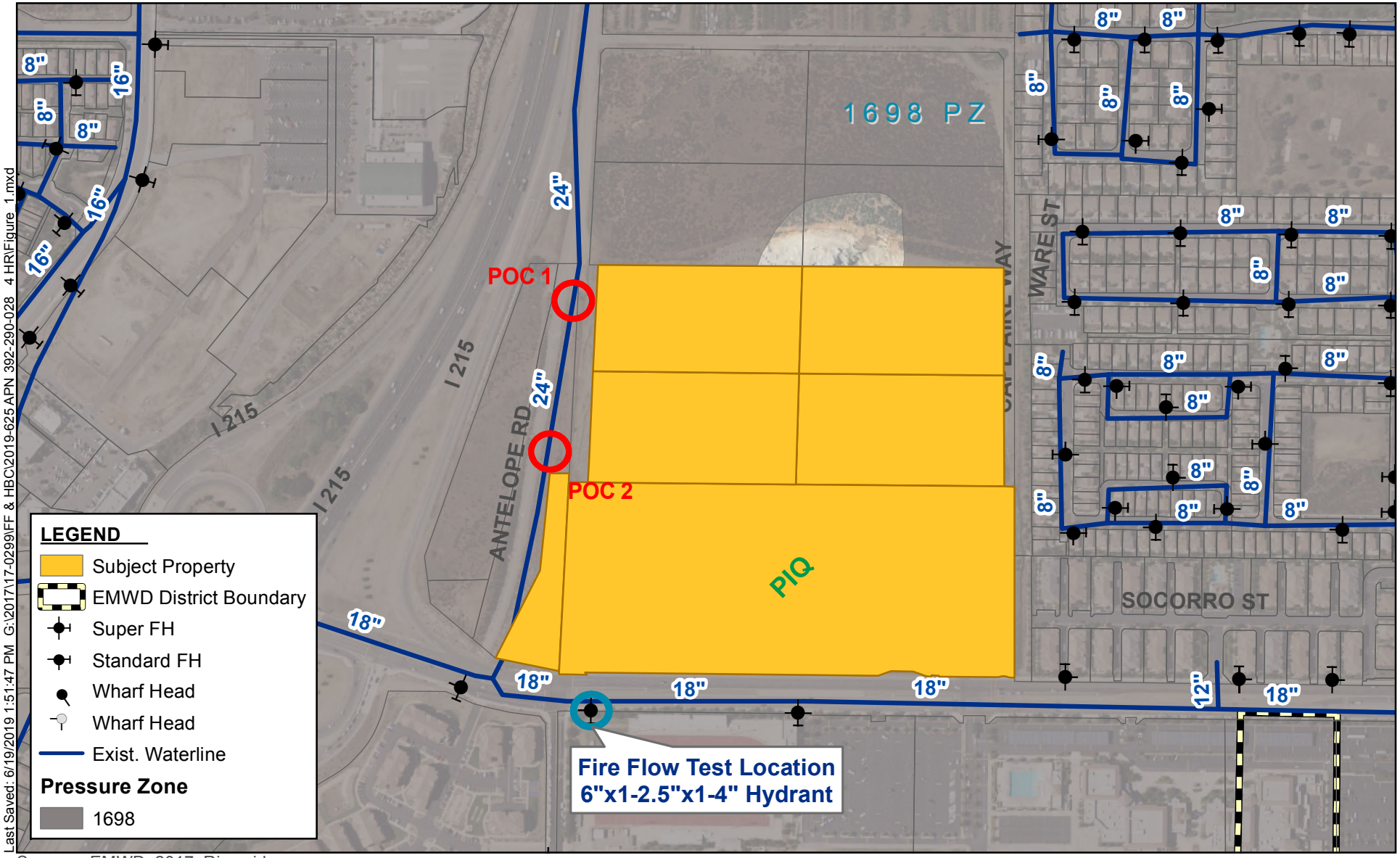
Should you have any questions or need additional information, please contact me at (951) 928-3777, ext. 4478.

Sincerely, Kristyna Danielson Date: 6/19/2019

Rudy Esparza
Sr. Engineering Technician
New Business Development

Reviewed By: RE Date: 6-25-2019

* Elevation based on Riverside County Flood Control digital data.
** Assumed 3.8 ac (average day demand = 2200 gpd/ac, Max Day Demand (MDD) is 2 times average day).



Sources: EMWD, 2017; Riverside Co. GIS, 2018; USDA NAIP, 2016.

0 500 1,000 Feet

FIGURE 1

COSTCO WHOLESALE FIRE FLOW TEST